U.S. DEPARTMENT OF COMMERCE
National Technical Information Service
PB-295 604

Design, Development and Testing of an Energy-Environment Information Transfer System. Volume II: Appendices

Auerbach Associates, Inc, Philadelphia, PA

Prepared for

Environmental Protection Agency, Denver, CO Office of Energy Activities

15 Oct 78

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO. EPA-908/4-78-007B	2.
3. RECIPIENT'S ACCESSION NO. PB295604	
4. TITLE AND SUBTITLE: Design, Development and Testing of an Energy-Environment Information Transfer System: Final Report. Volume II. Appendices	5. REPORT DATE: October 15, 1978
	6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S): Martha Cornog, Wendy Byer, and Thomas McGeehan	8. PERFORMING ORGANIZATION REPORT NO.: AAI-2428-TR-4 - App
9. PERFORMING ORGANIZATION NAME AND ADDRESS: AUERBACH Associates, Inc. 121 N. Broad Street Philadelphia, PA 19107	10. PROGRAM ELEMENT NO.
	11. CONTRACT/GRANT NO.: 68-01-4697
12. SPONSORING AGENCY NAME AND ADDRESS: U.S. Environmental Protection Agency Office of Energy Activities 1860 Lincoln Street Denver, CO 80295	13. TYPE OF REPORT AND PERIOD COVERED: Final Report; 8/16/77-10/15/78
	14. SPONSORING AGENCY CODE
15. SUPPLEMENTARY NOTES	

16. ABSTRACT

This is the final report on a project to design, develop and test an information transfer system to support energy-environment policy making and implementation decisions in Region VIII by Federal, State and local officials, and to serve the information needs on energy-environment issues of state agencies, legislatures, 208 planning agencies, Indian reservations, energy-impacted communities and other user groups. Phase I of the study, conducted by EPA, involved gathering information on potential users and user needs. This project was Phase II of the study. The report contains an analysis of user needs; definition of system functions; description of system operations, storage media and organizational arrangements; steps and costs projected for implementation; monitoring and accounting procedures; and results of the system test.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Information retrieval Information systems Energy Environmental impacts	Information transfer	5B 10A 13B

18. DISTRIBUTION STATEMENT: Unlimited	19. SECURITY CLASS *(This Report)*: Unclassified	21. NO. OF PAGES: 90
	20. SECURITY CLASS *(This page)*: Unclassified	22. PRICE: PCA05/MF A01

EPA Form 2220-1 (Rev. 4-77) PREVIOUS EDITION IS OBSOLETE

PB 295604

EPA-908/4-78-007B

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Final Report

Volume II: Appendices

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Contract No. 68-01-4697

Prepared by:

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NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

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APPENDIX A.

USER GROUP NAMES AND RESPONDENT TITLES*

*Source: EPA Region VIII User Survey, Phase I of this study; Colorado (state govn.), Montana (state and Western), Utah (local govn.) data sets.

USER ORGANIZATIONS AND RESPONDENTS INCLUDED IN THE DETAILED ANALYSIS

I. State Government User Groups

A. State Governor's Office - Advisory Groups and Personnel

MT Governor's Gasification Task Force
  Liaison Representative
Natural Resources Staff
  Ass't to Chief of Natural Resources
Energy Policy Council
  Executive Director
  Solar Energy Coordinator
  Energy Conservation Coordinator
State Planning and Coordinating Council
  Executive Director
208 Coordination Unit
  208 Coordinator
Land Use Commission
  Staff Director
Western Governor's Energy Policy Office
  Liaison to the Governor
Executive Ass't to the Governor
Socioeconomic Coordinator
Ass't for Natural Resources

B. State Government Departments

Dept. of Agriculture
  Commissioner of Agriculture
  Director of Programs and Operations
Dept. of Community Affairs
  Administrator, Research and Infor. Sys. Div.
Dept. of Education
  Director of Supporting Services
Dept. of Fish and Game
  Administrator, Environment and Info. Div.
Dept. of Health
  Director
  Ass't Director
  Public Relations Officer
  Chief, Solid Waste Division
  Chief, Health Ed. Section, Div. of Admin.
  Chief, Planning Section, Div. of Admin. Services
  Senior Planner, Air Pollution Control Div.
  Chief of Secondary Sources, Air Pollution Control Div.
  Chief, Air Quality Surveillance Section, Air Pollution Control Div.
  Director of Engineering and Sanitation
  Supervisor, Solid Waste Management Projects, Div. of Engineering and Sanitation
  Chief, Engineering Section, Div. of Engineering and Sanitation
  Director, Div. of Occupational and Radiological Health

Director, Div. of Preventative Medical Services
Technical Secretary, Water Quality Control Commission
Director, Water Quality Control Div.
Ass't Director, Water Quality Control Div.
Chief, Planning Section, Water Quality Control Div.
Dept. of Health and Environmental Services
Admin. of Environmental Sciences Div.
Dept. of Highways
Director
Research Ass't, Office of the Exec. Director
Water Quality Analyst, Environ. Div.
Land Use Planner, Environ. Div.
Research and Special Studies Engineer, Planning and Research Div.
Administrator, Engineering Div.
Dept. of Institutions
Assoc. Director for Exec. Svc., Office of the Exec. Director
Dept. of Labor and Employment
Director, Div. of Labor
Director, Div. of Employment
Dept. of Labor and Industry
Deputy Admin., Employment Security Div.
Dept. of Law
Ass't to Attorney Gen., Nat. Resources Section
Dept. of Livestock
Staff Attorney
Dept. of Local Affairs
Director
Coordinator of Rural Development, Office of Rural Development
Director, Div. of Planning
State Demographer, Div. of Planning
Director, Div. of Commerce and Development
Dept. of Natural Resources
Director
Deputy Director
Planning Coordinator, Director's Office
State Geologist and Director of Geological Survey
Director, Division of Mines
Director, Mined Land Reclamation Bd.
Director, Div. of Parks and Outdoor Recreation
Comprehensive Planner, Div. of Parks and Outdoor Recreation
Director, Soil Conservation Board
President, State Bd. of Land Commissioners
Director, Water Conservation Bd.
Chief of Environ. and Water Quality Section, Water Conservation Bd.
Senior Water Resource Specialist, Water Conservation Bd.
State Engineer, Div. of Water Resources
Chief of Environmental Resources Section, Div. of Wildlife
Div. Chief, Natural Resources Div.
Project Manager, Circle West Baseline Study, Energy Planning Division
Librarian

Dept. of Regulatory Agencies
Executive Secretary, Public Utilities Commission
Dept. of Revenue
Administrator, Research Div.
Administrator, Misc. Tax Div.
Acting Dept. Director
Dept. of Social Services
Executive Administrator
Dept. of Social and Rehabilitation Svc.
Administrator
Dept. of State Lands
Acting Commissioner
Chief, Coal Bureau

C. State Legislative Groups

Legislative Committees
Senate Business and Industry Committee
Chairman
Senate Public Health, Welfare and Safety Committee
Chairman
Senate Taxation Committee
Chairman
Senate Natural Resources, Wildlife and Energy Committee
Chairman
House Fish and Game Committee
Chairman
House Transportation and Energy Committee
Chairman

Legislative Councils
Legislative Council (CO)
Staff Director
Legislative Council (MT)
Director
Staff Attorney
Librarian

D. Miscellaneous State Organizations

MT Energy Advisory Council
Energy Research Coordinator
Environmental Quality Council
Executive Director
Citizen's Advisory Council on Alternative Energy
Chairman
Water Quality Bureau
Water Quality Specialist
Air Quality Bureau
Bureau Chief
Occupational Health Bureau
Chief
Judicial Dept.
Director, Research and Development
CO Housing and Finance Authority
Executive Director

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MT State Public Svc. Commission
Administrator of Utility Div.
Office of Superintendent of Public Instruction
Environmental Education Coordinator

II. Local/Regional Groups

A. City/Town Personnel

Mayor
Town President
City Manager
City Administrator
City Recorder
Town Clerk
Consulting Engineer
City Planner
Attorney

B. County Commissions

Administrative Officer
Administrative Ass't
County Commissioner

C. County and Regional Planning Organizations and Personnel

Area-wide Planning Organization
Water Quality Specialist
Planner
Current Planner
City/County Planning Board
Planner
Director of Advance Planning
City/County Planning Commission
Director
County Planning Board
Transportation Planner
County Planning Commission
Commissioner
Chairman
Secretary
Planning and Zoning Commission
Commissioner
4 Corners Regional Commission
Director, Dept. of Commun. Affairs
County Planner
County Planning Director
Yellowstone Basin and Adjacent Coal Field Area
Study Mgr.
Upper Flathead River Basin Study
Resource Planner
Director
Northern Cheyenne Research Project
Sociologist
Information Officer
Office of Crow Coal Research
Acting Director
County Health Office
Environmental Health Officer
County Clerk

D. City/County Libraries
Librarian

III. Citizens' Groups and Coalitions

Uintah Basin Assn. of Governments
Chairman
Executive Director
Southeastern Assn. of Governments
Chairman
Executive Director
Five County Assn. of Governments
Chairman
Acting Director
Six County Commissioners Organization
Chairman
Executive Director
Intermountain Consumer Power Assoc.
Member
N. Plains Resource Council
Staff Coordinator
Research Coordinator
Staff Member
Alternative Energy Resources Organization
Director
Flathead Coalition
Attorney
Environmental Information Center
Staff Director
Staff Member
Six County Economic Development District
Member/representative
Economic Development Assn. of E. Montana
President
Member
MT Wilderness Assn.
President
Audubon Society (Local Chapter)
President
Board member
MT Wildlife Federation
President
Hill County Wildlife Assn.
President
Secretary/Treasurer
N. Rockies Action Group
Director
Staff Member
MT League of Women Voters
State President
League of Conservation Voters
Board member
Staff member
N. Energy Water Users Assn.
Member

Farm Home Administrators
Consumer Council
Director

IV. Industrial Groups

MT Stockgrower's Assn.
Executive VP
Land and Mineral Owners' Assn.
Past President
Coal Council
Exec. Director
MT Power Co.
Manager of Environmental Protection
Peabody Mine
Reclamation Spv. for W. States
AFL-CIO
Member

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APPENDIX B.

USER AND USER NEED DATA, BY USER GROUP*

*Source: EPA Region VIII User Survey, Phase I of this study; Colorado (state govn.), Montana (state and Western), Utah (local govn.) data sets.

GOVERNOR'S OFFICE USER GROUPS AND PERSONNEL
(Montana, Colorado)

Format	MT (N=2)	CO (N=10)	Total (N=12)	%
Executive summaries		9	9	75%
Technical reports	1	6	7	58%
E/E legislation/regulation		7	7	58%
Management reports*		6	6	50%
Statistics	1		1	8%
Bibliographies	1		1	8%
No formats specified	1		1	8%
Subject Content				
Energy resources	1	8	9	75%
All topics	1	4	5	42%
Coal		3	3	25%
Oil shale		2	2	17%
Coal gasification	1		1	8%
Solar		1	1	8%
Facility siting		1	1	8%
Environmental impacts	1	8	9	75%
Air quality	1	7	8	67%
Water quality	1	6	7	58%
Sewage/Solid waste	1	5	6	50%
Drinking water		4	4	33%
Noise		3	3	25%
Water pollution		2	2	17%
Water supply	1		1	8%
Environmental monitoring	1		1	8%
Land use		1	1	8%
Biological impacts	1	1	2	17%
Human health	1		1	8%
Plant life/agriculture		1	1	8%
Socioeconomic impacts	1	4	5	47%
Social structure	1	3	4	33%
Economics	1	3	4	33%
Recreation	1	1	2	17%
Taxes	1		1	8%
Population		1	1	8%
Financial assistance		7	7	58%

*Region VIII Accomplishment Plan

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GOVERNOR'S OFFICE (continued)

Environmental impact statements		5	5	47%
Energy conservation		2	2	17%
Pollution	1	1	2	17%
E/E legislation/regulations		1	1	8%

User Sophistication

No information available

Comments

- Request monthly list of EPA publication
- Express need for a region-wide EIS/monitoring system of energy development

STATE GOVERNMENT DEPARTMENTS
(Montana, Colorado)

Format	MT (N=15)	CO (N=50)	Total (N=65)	%
Executive summaries	5	37	42	65%
E/E legislation/regulations	2	30	32	49%
Technical reports	10	19	29	45%
Management reports*		21	21	32%
Data		8	8	12%
Bibliographies	7		7	11%
Statistics	3	1	4	6%
All formats		4	4	6%
Expert consultants	3		3	5%
Seminars/conferences	2		2	3%
Brochures/pamphlets		2	2	3%
News releases		1	1	1%
No formats specified	3		3	5%
Subject Content				
Energy resources	7	24	31	48%
All topics	1	18	19	29%
Coal	3	4	7	11%
Oil shale	2	2	4	6%
Mining (other than coal)	3	1	4	6%
Nuclear	1	2	3	5%
Geothermal	1	2	3	5%
Fertilizer	3		3	5%
Natural gas	1	1	2	3%
Electricity		2	2	3%
Uranium		2	2	3%
Petroleum	1		1	1%
Wood	1		1	1%
Slurry	1		1	1%
Hydropower	1		1	1%
Phosphate	1		1	1%
Solid/organic waste	1		1	1%
Solar		1	1	1%
Fossil fuels		1	1	1%
Environmental impacts	9	42	51	83%
Water quality	5	26	31	48%
Sewage/solid waste	2	29	31	48%
Air quality	5	25	30	46%
Drinking water		18	18	28%
Noise		18	18	28%

*Region VIII Accomplishment Plan

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STATE GOVERNMENT (continued)

Water supply	5	3	8	12%
Land use/capability		8	8	12%
Pesticides	3	2	5	8%
Environmental monitoring	3	1	4	6%
Water (general)		3	3	5%
Air (general)		2	2	5%
All	2		2	3%
Air pollution		1	1	1%
Herbicides		1	1	1%
Biological impacts	9	7	16	25%
Human health		6	6	9%
All topics	5		5	8%
Domestic/farm animals	3	1	4	6%
Plant life/agriculture	2	2	4	6%
Wildlife	1	1	2	3%
Predators	1		1	1%
Soils	1		1	1%
Socioeconomic impacts	6	12	18	28%
Population	2	5	7	10%
All topics		6	6	9%
Economics	4		4	6%
Taxes	4		4	6%
Labor/employment	1	2	3	5%
Housing	1	1	2	3%
Social structure	2		2	3%
Recreation		2	2	3%
Health & safety		1	1	1%
Law enforcement/fire		1	1	1%
Roads/transportation		1	1	1%
Financial assistance	3	33	36	55%
Environmental impact statements		24	24	37%
E/E legislation/regulations	3	4	7	11%
E/E research projects	4	1	5	8%
What other states have done	4	1	5	8%
Pollution control	3	2	5	8%
Energy conservation		3	3	5%
Methodology	1		1	1%

Public opinion information	1		1	1%
National energy policy		1	1	1%
Thermal pollution		1	1	1%

User Sophistication

Members of departments are professionals with background in administration and/or technical areas, e.g., engineering. Some departments interface with the public, dispensing information, training, etc.

Comments

- Interested in both national information on trends, and state/region issues
- Mentioned frequently was: a monthly list of EPA publications with summaries
- An assortment of information products requested:
  - "Would like one year's advance notice of EPA funding to use in own budget."
  - "Lifestyle data: measuring intensity and spatial distribution of activity, travel movements, density of habitation, etc."
  - "Funding for comprehensive environmental data base management system so Colorado could develop its own."
  - "EPA's comments on EIS at an early (draft) stage in the review process so state can take advantage of EPA information in formulating its own positions."
- Need for educational materials (mentioned by Department of Health and Department of Education personnel): brochures, news releases, materials for grades K-12, slide shows, etc.

STATE LEGISLATIVE GROUPS
(Committees and Legislative Councils)
(Montana, Colorado)

Format	MT (N=5)	CO (N=3)	Total (N=8)	%
Executive summaries	3	3	6	75%
E/E legislation/regulations	1	1	2	25%
Management reports*		2	2	25%
Expert consultants	1		1	12%
Bibliographies	1		1	12%
Technical reports	1		1	12%
"Opposing views"	1		1	12%
No formats specified	2		2	25%
Subject Content				
Energy resources	4	3	7	87%
Coal	2	1	3	37%
Solid/organic wastes	1	2	3	37%
Solar	1	2	3	37%
Coal gasification	2		2	25%
Nuclear	2		2	25%
Hydropower	1		1	12%
Wood	1		1	12%
Geothermal		1	1	12%
All topics		1	1	12%
Environmental impacts	3	3	6	75%
Water quality	2	1	3	50%
Air quality	2		2	25%
Water supply	1	1	2	25%
Water pollution		1	1	12%
Air (general)		1	1	12%
Drinking water		1	1	12%
Sewage/solid waste		1	1	12%
Noise		1	1	12%
All topics		1	1	12%
Biological impacts	1	1	2	25%
Plant life/agriculture	1		1	12%
Wildlife	1		1	12%
All topics		1	1	12%
Socioeconomic impacts	3	1	4	50%
Taxes	2		2	25%
Recreation	1		1	12%
Economics	1		1	12%
All topics		1	1	12%

*Region VIII Accomplishment Plan

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STATE LEGISLATIVE (continued)

E/E legislation/regulations	2		2	25%
Financial assistance		2	2	25%
"Bottle Bill"	1		1	12%
E/E research projects	1		1	12%
Public opinion information	1		1	12%
Energy impact statements		1	1	12%
Energy conservation		1	1	12%
What other states have done	1		1	12%

User Sophistication

Minimal inputs. Legislative councils: attorneys, researchers, administrators. Legislators: grain ranchers, cattle ranchers, foresters.

Comments

- State legislators get information mostly from Legislative Council, lobby groups, media. Usually little current interface with EPA.
- All information (especially for Legislative Councils) needed on extremely short notice.

MISCELLANEOUS STATE ORGANIZATIONS
(Montana, Colorado)

Format	MT (N=8)	CO (N=2)	Total (N=10)	%
Technical reports	5		5	50%
Executive summaries	2	2	4	40%
Bibliographies	4		4	40%
Statistics	3		3	30%
Expert consultants	3		3	30%
E/E legislation/regulations	2		2	20%
Seminars/conferences	2		2	20%
Maps/graphics	1		1	10%
"Activities for the classroom"	1		1	10%
Subject Content				
Energy resources	7	1	8	80%
Coal gasification	6		6	60%
Wood	5		5	50%
Coal	5		5	50%
Solar	3	1	4	40%
Solid/organic wastes	3		3	30%
Hydropower	2		2	20%
Natural gas	2		2	20%
Nuclear	2		2	20%
Uranium	1		1	10%
Oil shale	1		1	10%
Petroleum	1		1	10%
Geothermal	1		1	10%
Zinc	1		1	10%
"Energy conversion facilities"	1		1	10%
Environmental impacts	7		7	70%
Environmental monitoring	4		4	40%
Air quality	3		3	30%
Water quality	3		3	30%
Radiation	3		3	30%
Noise	3		3	30%
Water supply	2		2	20%
Sewage/solid waste	2		2	20%
Pesticides	2		2	20%
All topics	2		2	20%
Socioeconomic impacts	5	2	7	70%
Taxes	5		5	50%
Education	3		3	30%

MISCELLANEOUS STATE ORG. (continued)

Recreation	2		2	20%
Social structure	2		2	20%
Economics	2		2	20%
Housing		1	1	10%
Population		1	1	10%
All topics		1	1	10%
E/E research projects	5		5	50%
Financial assistance	3	1	4	40%
E/E legislation/regulations	3		3	30%
Pollution	3		3	30%
What other states have done	3		3	30%
Public opinion information	1		1	10%

User Sophistication

Administrators, professional citizens, various technical and non-technical specialists, technicians, educators.

Comments

- Expressed need for lists of what is available (bibliographies) and summaries.
- More information specific to region/situation; information should be aimed for use at local level.
- Some interest in telephone service and computerized cataloging and distribution system.
- Would like a centralized system for information.

CITY/TOWN PERSONNEL
(Montana, Utah)

Format	MT (N=1)	UT* (N=46)	Total (N=47)	%
Executive summaries		46	46	98%
E/E legislation/regulations		46	46	98%
Technical reports and data		46	46	98%
No formats specified	1		1	2%
Subject Content				
Energy resources		44	44	94%
Coal		33	33	70%
Electricity		29	29	62%
Petroleum		25	25	53%
Natural gas		18	18	38%
Oil shale		15	15	32%
Uranium		13	13	28%
Alunite		10	10	21%
Potash		6	6	13%
Geothermal		2	2	4%
Iron ore		1	1	2%
Phosphate		1	1	2%
Coal gasification		1	1	2%
Gilsonite		1	1	2%
Wood		1	1	2%
Environmental impacts	1	46	47	100%
Sewage and solid waste	1	45	46	98%
Drinking water		42	42	89%
Water treatment		39	39	83%
Water quality	1	36	37	79%
Air quality	1	33	34	72%
Storm water		18	18	38%
Noise		14	14	30%
Water pollution		4	4	8%
Pesticides		3	3	6%
Water supply		1	1	2%
Biological impacts	1	2	3	6%
Plant life/agriculture	1	2	3	6%
Human health	1		1	2%
Domestic/farm animals	1		1	2%

*These were group interviews. Executive summaries were specified to go to mayors and town presidents; legislation/regulations to town clerks, recorders, administrators; technical reports and data to consulting engineers.

CITY/TOWN PERSONNEL (continued)

Socioeconomic impacts	1	35	36	76%
Social structure	1	21	22	47%
Economics		22	22	47%
Housing		21	21	45%
Law enforcement/fire		18	18	38%
Medical		16	16	34%
Health programs		7	7	15%
Recreation	1	6	7	15%
Roads/transportation		7	7	15%
Elderly/handicapped		5	5	11%
Taxes	1		1	2%
Population	1		1	2%
Education	1		1	2%
E/E legislation/regulations	1	43	44	94%
Financial assistance	1	41	42	89%
E/E research projects	1		1	2%

User Sophistication

Part-time administrators, not trained as such. Heavy reliance on consulting engineering firms for technical assistance on a project basis. Administrators have full-time "private" jobs.

Comments

- These are part-time officials who are overwhelmed by recent impacts, especially as felt in water/sewer areas. Funding lags behind needs.
- Material currently sent "too long, technical, full of jargon." Wanted: summary of available programs and an EPA representative available for consultation.
- Executive summaries of programs, laws, regulations, studies and other information should go to chief elected officials. Executive summaries and full text of materials necessary to implement programs should go to city administrators, managers, recorders and clerks. Complete text of laws, regulations, and data should to go engineers.

COUNTY COMMISSIONS
(Montana)

Format	MT (N=12)	%
Executive summaries	8	67%
Bibliographies	4	33%
Technical reports	2	17%
Expert consultants	2	17%
E/E legislation/regulations	1	8%
Seminars/conferences	1	8%
Statistics	1	8%
No formats specified	3	25%

Subject Content		
Energy resources	7	58%
Coal	6	50%
Petroleum	3	25%
Oil shale	2	17%
Natural gas	2	17%
Wood	1	8%
Coal gasification	1	8%
Slurry	1	8%
Uranium	1	8%
Solar	1	8%
Hydropower	1	8%
Copper	1	8%
Potash	1	8%
Environmental impacts	9	75%
Water quality	6	50%
Sewage/solid waste	5	42%
Water supply	4	33%
Air quality	3	25%
Pesticides	3	25%
Radiation	1	8%
Dust	1	8%
Biological impacts	3	25%
Plant life/agriculture	1	8%
Wildlife	1	8%
Socioeconomic impacts	8	67%
Taxes	8	67%
Recreation	2	17%
Social structure	2	17%

COUNTY COMMISSIONS (continued)

"Indians"	1	8%
Population	1	8%
Housing	1	8%
Employment	1	8%
Financial assistance	6	50%
E/E research projects	4	33%
E/E legislation/regulations	4	33%
Pollution (general)	1	8%
Public opinion information	1	8%

User Sophistication

Private citizens acting as administrators. Professionally they are businessmen and ranchers.

Comments

- Don't know what information is available.
- Feel they get too much information.
- Want situation-specific and region-specific information.
- Telephone access a possibility.
- Problem understanding state/Federal regulations.

COUNTY AND REGIONAL PLANNING GROUPS AND PERSONNEL
(Montana, Utah)

Format	MT (N=15)	UT (N=7)	Total (N=22)	%
Executive summaries	4	7	11	50%
Technical reports	4		4	18%
Bibliographies	2		2	9%
Abstracts	2		2	9%
Expert consultants	2		2	9%
E/E legislation/regulations	1	1	2	9%
Statistics	2		2	9%
Technical data		1	1	5%
Maps/graphics	1		1	5%
Seminars/conferences	1		1	5%
All formats	1		1	5%
No formats specified	7		7	32%

Subject Content	MT (N=15)	UT (N=6)	Total (N=21)	%
Energy resources	10	6	16	76%
Coal	9	5	14	66%
Petroleum	6	3	9	43%
Natural gas	4	2	6	28%
Electricity		4	4	19%
Uranium	2	2	4	19%
Oil shale	2	1	3	14%
Alunite		3	3	14%
Solid/organic waste	2		2	9%
Potash		1	1	5%
Solar	1		1	5%
Wind	1		1	5%
Iron ore		1	1	5%
Butonite	1		1	5%
Environmental impacts	13	6	19	90%
Water quality	13	5	18	86%
Sewage/solid waste	11	4	15	71%
Air quality	9	3	12	57%
Noise	3	3	6	28%
Water supply	6		6	28%
Drinking water		5	5	24%
Environmental monitoring	2	3	5	24%
Water treatment		4	4	19%
Storm water		3	3	14%
Pesticides	1	1	2	9%
Geology/soils	1		1	5%

COUNTY AND REGIONAL PLANNING (continued)

Biological impacts	8		8	38%
Plant life/agriculture	5		5	24%
Human health	4		4	19%
Wildlife	3		3	14%
All topics	2		2	9%
Fisheries	1		1	5%
Socioeconomic impacts	10	6	16	76%
Taxes	9		9	43%
Social structure	5	3	8	38%
Economics	4	3	7	33%
Recreation	5	2	7	33%
Education	6		6	28%
Roads/transportation	1	3	4	19%
Housing	1	3	4	19%
Law enforcement/fire		2	2	9%
Population		1	1	5%
Health/medical		1	1	5%
Land use	1		1	5%
E/E legislation/regulations	6	5	11	50%
Financial assistance	7	3	10	45%
E/E research projects	6		6	27%
Pollution control	5		5	23%
What other areas have done	4		4	18%
Public opinion information	3		3	14%

User Sophistication

Professional planners, administrators, researchers, with degrees in planning, engineering, architecture.

Comments

- Don't know what information is available.
- Get too much untargeted information.
- Want situation-specific, region-specific information, especially baseline studies.
- Problem understanding state/Federal interaction and regulations, policies, etc.

CITY/COUNTY LIBRARIANS
(Montana)

Format	MT (N=11)	%
Bibliographies	8	73%
Executive summaries	7	64%
Maps/graphics	5	45%
Technical reports	3	27%
Statistics	3	27%
Seminars/conferences	2	18%
Pamphlets	1	9%
E/E legislation/regulations	1	9%
"General information"	1	9%
No formats specified	2	18%

Subject Content		
Energy resources	10	91%
Coal gasification	7	64%
Coal	6	54%
Solar	5	45%
Wood	4	36%
Wind	4	36%
Copper, lead, zinc	3	27%
Solid/organic wastes	3	27%
Nuclear	3	27%
Oil shale	2	18%
Fertilizer	1	9%
Potash	1	9%
All topics	1	9%
Petroleum	1	9%
Hydropower	1	9%
Natural gas	1	9%
Geothermal	1	9%
Slurry	1	9%
Environmental impacts	9	81%
Air quality	5	45%
Water quality	4	36%
Environmental monitoring	4	36%
Pesticides	3	27%
Water supply	3	27%
All topics	3	27%
Sewage/solid wastes	2	18%
Land use	1	9%

AAI

LIBRARIANS (continued)

Radiation	1	9%
Noise	1	9%
"Weather modification"	1	9%
Biological impacts	9	81%
All topics	5	45%
Human health	3	27%
Plant life/agriculture	3	27%
Wildlife	3	27%
Domestic/farm animals	3	27%
Socioeconomic impacts	10	91%
Taxes	6	54%
What other areas have done	6	54%
Social structure	4	36%
Economics	4	36%
Recreation	4	36%
Education	2	18%
All topics	2	18%
Housing	2	18%
"How to make homes energy efficient"	1	9%
E/E research projects	8	72%
E/E legislation/regulations	4	36%
Pollution Control	4	36%
Public opinion information	2	18%
Financial assistance	2	18%

User Sophistication

Library users mostly "private citizens." Some students, some technical and research types.

Comments

- Don't know what's available.
- Need general interest information, rather than technical.
- Favor regional/state depository or regionally-focused Federal information system.
- Telephone directory service might be useful, or a catalog; anything to zero in on a specific regional interest.
- Favor networking and interlibrary loan.

AAI

CITIZEN'S GROUPS
(Montana, Utah)

Format	MT (N=13)	UT (N=4)	Total (N=17)	%
Executive summaries	8	4	12	70%
Bibliographies	11		11	65%
E/E legislation/regulations	5	4	9	53%
Statistics	4		4	23%
Data		4	4	23%
Expert consultants	3		3	18%
Seminars/conferences	2		2	12%
Maps/graphics	2		2	12%
Directories	1		1	6%
Pamphlets	1		1	6%
All formats	1		1	6%
Subject Content				
Energy resources	9	4	13	76%
Coal	5	4	9	53%
Coal gasification	5		5	29%
Natural gas	2	3	5	29%
Petroleum	1	4	5	29%
Oil shale	1	3	4	23%
Potash	3	1	4	23%
Uranium	2	2	4	23%
Electricity		4	4	23%
Hydropower	2		2	12%
Platinum	2		2	12%
Hardrock mining	2		2	12%
Wood	1	1	2	12%
Geothermal	1	1	2	12%
Alunite		2	2	12%
All topics	1		1	6%
Copper	1		1	6%
Slurry	1		1	6%
Solid/organic waste	1		1	6%
Solar	1		1	6%
Wind	1		1	6%
Phosphate		1	1	6%
Gilsonite		1	1	6%
Environmental impacts	11	4	15	88%
Air quality	8	4	12	70%
Water quality	8	4	12	70%
Sewage/solid waste	2	5	7	41%

CITIZEN'S GROUPS (continued)

Water supply	5	1	6	35%
Noise		4	4	23%
Water treatment		4	4	23%
Drinking water		4	4	23%
Storm water		4	4	23%
Environmental monitoring	3		3	18%
Land use/capability	2		2	12%
All topics	2		2	12%
Herbicides	1		1	6%
Radiation	1		1	6%
Biological impacts	10		10	58%
Plant life/agriculture	5		5	38%
Wildlife	4		4	31%
Human health	4		4	31%
All topics	3		3	23%
Domestic/farm animals	2		2	15%
Endangered species	1		1	6%
Socioeconomic impacts	8	4	12	70%
Social structure	4	4	8	47%
Economics	3	4	7	41%
Taxes	5		5	29%
Housing	1	3	4	23%
Law enforcement/fire		4	4	23%
Medical		4	4	23%
Education	3		3	18%
Recreation	3		3	18%
Health programs		2	2	12%
All topics	2		2	12%
"Rate increases"	1		1	6%
"People pollution"	1		1	6%
Conservation	1		1	6%
Roads/transportation		1	1	6%
E/E legislation/regulations	12	4	16	94%
E/E research projects	12		12	70%
Financial assistance	4	4	8	47%
What other areas have done	5		5	29%
Pollution control	4		4	23%
Public opinion information	3		3	18%
EPA policy papers	1		1	6%
All information related to specific projects	1		1	6%

CITIZEN'S GROUPS (continued)

User Sophistication

Mostly private citizens without technical expertise. Some groups have members with technical expertise, attorneys, etc.

Comments

- Strong regionalism
- Need summaries of government activities (legislation, projects, funding) impacting region
- Would like regularly issued bibliographies, summaries, index, newsletters, of EPA publications and activities

INDUSTRIAL GROUPS
(Montana)

Format	MT (N=6)	%
Executive summaries	3	50%
Technical reports	2	33%
Bibliographies	1	17%
E/E legislation/regulations	1	17%
Statistics	1	17%
No formats specified	2	33%
Subject Content		
Energy resources	5	83%
Coal	4	75%
Oil shale	2	33%
Natural gas	2	33%
Petroleum	2	33%
Coal gasification	1	17%
Solar	1	17%
Hydropower	1	17%
All topics	1	17%
Environmental impacts	5	83%
Water quality	4	75%
Air quality	2	33%
Pesticides	2	33%
Land use (reclamation)	2	33%
Water supply	2	33%
Herbicides	1	17%
Sewage/solid waste	1	17%
Biological impacts	4	75%
Domestic/farm animals	3	50%
Plant life/agriculture	3	50%
Predators	1	17%
All topics	1	17%
Socioeconomic impacts	2	33%
Education	2	33%
Recreation	2	33%
Taxes	1	17%
Social structure	1	17%
Population	1	17%
E/E research projects	4	66%

INDUSTRIAL GROUPS (continued)

E/E legislation/regulations	3	50%
Pollution control	1	17%

User Sophistication

Private citizens: engineers, professional people

Comments

- Currently not dealing much with EPA. Get much more information from professional groups, universities and somewhat from state and Federal governments
- Not enough interviews to generalize all comments. One respondent mentioned need of information mainly to satisfy state and Federal regulations. Regionalism attitude

APPENDIX C.

ENVIRONMENTAL DATA BASE SPECIFICATIONS

AEROMETRIC AND EMISSIONS REPORTING SYSTEM

SYNONYMOUS NAMES

1. AEROS

DESCRIPTION

AEROS is a comprehensive computer-based system established by the National Air Data Branch, EPA, to collect, store and analyze air pollution data. The data are collected by the various state and local agencies and reported to EPA. These data are then stored and analyzed in AEROS. The most notable feature of AEROS is that it is a "reporting system". The primary function of AEROS is to provide concise and standardized reports of various aspects of air pollution.

AEROS is composed of several sub-systems, some of which are capable of functioning as independent data systems. The complete AEROS complex contains two basic segments: (1) the AEROS DATA SYSTEM collects, stores and reports air pollution data to be put into the system: (2) The AEROS ANALYSIS SYSTEM draws data from the DATA SYSTEM and uses them to answer questions regarding the nature and causes of air pollution, predictions of future problems, legal action which should be taken and related problems. By coordinating these two systems the user is able to obtain answers to many questions regarding air pollution problems and needs from one comprehensive system.

DATA SYSTEMS

1. NEDS - Information on Air Pollution Sources.
2. SAROAD - Information on Air Quality.
3. SOTDAT - Specific Stack Test Results.
4. HISTORY - Past Emissions.
5. SIPS - Information on Legal Regulations.
6. FPC-67 - Power Plant Data.
7. HATREMS - Information on Hazardous and Trace Pollutant Sources.
8. EDS - Information on Energy.
9. QAMIS - Aerometric Data Quality.

ANALYSIS SYSTEMS

1. CAASE - Emissions Apportioning.
2. REPS - Projections.
3. SIEFA - Error Analysis of Data.
4. APER - Data Management.
5. WSAP - Error Analysis of Data.
6. PREMOD - Data for Predictions of Air Quality.

NATIONAL EMISSIONS DATA SYSTEM

SYNONYMOUS NAMES
1. NEDS

DESCRIPTION
NEDS, a major subsystem of EPA AEROS(Aerometric and Emissions Reporting System), is a computerized data handling system which accepts, stores, and reports on information relating to sources of any of the five criteria pollutants(particulates, SO_x, NO_x, CO and hydrocarbons). In NEDS a major distinction is made between two types of sources: point sources and area sources. Point sources, in the broadest sense, are stationary sources large enough to be identified and tracked individually; although per NEDS reporting requirements, they are any plants with a potential of emitting more than 100 tons/year of any of the criteria pollutants. Area sources, on the other hand, are those stationary and mobile sources which individually emit much less than 100 tons/year and are too small and too numerous to keep individual records on. In NEDS, area sources are considered collectively on a county basis.

In addition to the point and area source files, emission factor files are maintained as a part of NEDS. Emission factors are essentially conversion factors, which, when multiplied by the operating rate of a point source or activity level of an area source, yield emission estimates of each pollutant for that source. Emission factors are an integral concept in NEDS because they enable emission estimates to be made for a source when no source test information is available.

CONTACT
EPA Region VIII, Barry Levene

COMPUTER
UNIVAC 1110; Physically located at Research Triangle Park, N.C. Information is accessible in batch and remote batch modes.

TURN AROUND TIME
Approximately 24 hours

COST
Average cost of retrieval approximately $

OUTPUTS

The following describes the more important reports available from NEDS. This is not necessarily a complete list since NEDS is continually being expanded to facilitate additional user needs.

Complete point or area source listing - These reports include in a standard format, all of the source and emissions data stored in NEDS for individual point or area sources. This includes all of the data supplied to NEDS on point and area source input forms as well as any emission estimates calculated by EPA through the use of emission factors.

Condensed point source listing - This report yields an abbreviated listing of data items for each point source, including the plant name, location, control device(and efficiency thereof) and the emissions associated therewith.

Emissions summary report - This report outputs, for a specified geographical area, emissions of each of the criteria pollutants associated with all of the source categories represented in NEDS as well as the total emissions for all source categories.

Area Source fuel summary listing - This report shows the amounts of various types of fuels consumed by major user categories(residential, commercial/institutional, and industrial) for a specified geographical area. This summary includes area source records only.

Plant emissions report - This report presents a listing of the names of plants in NEDS and the emissions associated with each plant.

Fuel summary listing - This report shows the fuel amounts consumed by all stationary and mobile source categories for a specified geographical area. This report includes both point and area source records.

SCC(Source Classification Code) emissions report - This report shows each SCC, the number of times that SCC occurs within a specified geographical area, and the total emissions for each of the five pollutants associated with each SCC. (Note that a SCC is a code used in NEDS to represent different kinds of point source categories.)

Allowed vs. actual emissions - This report shows, for each point source, the emissions that point is allowed to discharge by law as well as an estimate of the amount of each pollutant that is actually being emitted.

Missing items report - This report totals the data items that are missing in the point source records for any geographical area of interest.

CURRENCY OF DATA

Information current through previous quarter, historical data from 19___, updated quarterly.

STATE IMPLEMENTATION PLAN REGULATIONS

SYNONYMOUS NAMES
1. SIP

DESCRIPTION
SIP is a subsystem of EPA AEROS(Aerometric and Emissions Reporting System), has been developed to store the full text of all EPA approved state air pollutant regulations. SIP currently provides two basic outputs; one provides a full text retrieval of each regulation as it applies to one of approximately 160 identifying codes(e.g., source surveillance, record keeping, SO_x.controls, etc.) This can be run for any state, AQCR(Air Quality Control Region), or county. The second provides the number of regulations that meet retrieval specifications. This allows the user to answer "how many ?" questions and to estimate the potential volume at the full text retrieval.

As of January 1975, approximately 5,000 state regulations have been loaded into the SIP file, other regulations are added as they become available. Future plans call for the expansion of SIP to include federally promulgated regulations. In addition, program capability is planned to correlate the regulations contained in SIP with sources in NEDS(National Emission Data System) to which those regulations are applicable.

CONTACT
Same as NEDS

COMPUTER
Same as NEDS

TURNAROUND TIME
Approximately 24 hours

COST
Average estimated cost of retrieval _____.

OUTPUT
See SIP description

REGIONAL EMISSIONS PROJECTIONS SYSTEM

SYNONYMOUS NAMES
1. REPS

DESCRIPTION
REPS is a subsystem of EPA AEROS(Aeromatric and Emissions Reporting System) and has been developed to estimate future air pollutant emissions. Basically, REPS utilizes the existing NEDS(National Emissions Data System) point and area source data, projected regional and national growth data supplied by the U.S. Department of Commerce, and various other information (e.g. emission factors, allowable emission levels, etc.) to project what the emissions will be from various source categories for certain years up to the year 2000. In addition to this basic capability, the user can exercise various override capabilities(i.e., insert data other than that provided by the NEDS files or the Department of Commerce, etc.) and as a result, be able to project the most probable emission at some future date as well as evaluate the impact that certain changes (e.g., changes in required emission controls, industrial growth, etc.) may have. REPS thus can be utilized as a management tool for evaluating air pollution control strategies.

CONTACT
Same as NEDS

COMPUTER
Same as NEDS

COST
Average estimated cost of retrieval

OUTPUT
See REPS description

EMISSIONS HISTORY INFORMATION SYSTEM

SYNONYMOUS NAMES
1. EHIS

DESCRIPTION
EHIS is a subsystem of EPA-AEROS(Aerometric and Emissions Reporting System) and is being developed as a computerized technique for producing air pollutant emissions scenarios. It utilizes as input production rates and activity levels for various types of sources, along with emission factors, fuel, and control device information; it outputs emission estimates of various pollutants from each major source category in a given geographical area over a period of time. At present, plans are mainly to use EHIS to produce historical trends information on a nation-wide basis, although it can be used for other purposes such as control strategy evaluation, emissions projections, etc.

CONTACT
Same as NEDS

COMPUTER
Same as NEDS

TURNAROUND TIME
Approximately 24 hours

COST
Average estimated cost of retrieval

OUTPUT
See NEDS

WEIGHTED SENSITIVITY ANALYSIS PROGRAM

SYNONYMOUS NAMES
1. WSAP

DESCRIPTION
WSAP is a subsystem of EPA AEROS(Aerometric and Emissions Reporting System) and is a computerized analysis designed to operate on the NEDS(National Emission Data System) emission inventory files. It computes the variance which can be tolerated in the emission estimate for each source category in order that some overall user-specified limit shall not be exceeded. WSAP is thus mainly a managerial tool that can be utilized to determine how much effort should be expended to improve the emission inventory for each source category. WSAP can be run on a nationwide, regional, AQCR(Air Quality Control Region), state, or county basis for any of the NEDS pollutants.

CONTACT
Same as NEDS

COMPUTER
Same as NEDS

TURNAROUND TIME
Approximately 24 hours

COST
Average estimated cost of retrieval

OUTPUT
Allowed vs. actual emissions - The report shows, for each point source, the emissions that point is allowed to discharge by law as well as an estimate of the amount of each pollutant that is actually being emitted.

SOURCE TEST DATA SYSTEM

SYNONYMOUS NAMES
1. SOTDAT

DESCRIPTION
SOTDAT, a subsystem of EPA AEROS(Aerometric and Emissions Reporting System), is designed to store and retrieve all relevant technical data collected during the measurement of pollutant emissions from point sources, i.e. stack test data. Presently SOTDAT contains data from source tests covering a wide range of stationary combustion facilities, chemical processes, mineral products and other source categories. Approximately 500 source tests have been incorporated into SOTDAT as of January 1975, and it is expected that between 300 to 500 will be added each year as they are made available. Presently, only limited retrieval capability exists, but it is expected that additional programming will be available as the file grows and as usage demands are increased.

CONTACT
Same as NEDS

COMPUTER
Same as NEDS

TURNAROUND TIME
Same as NEDS

COST
Average cost

OUTPUT
Plant emissions report. See NEDS outputs.

SOURCE INVENTORY AND EMISSION FACTOR ANALYSIS

SYNONYMOUS NAMES
1. SIEFA

DESCRIPTION
SIEFA is a subsystem of EPA AEROS(Aerometric and Emission Reporting System),and like WSAP, (Weighted Sensitivity Analysis Program), is a computerized analysis which operates on the NEDS (National Emission Data System) emission inventory files and is , in fact, the logical complement to WSAP. SIEFA computes the actual (as opposed to allowable)imprecision that exists in each of the emission estimates for each source category in NEDS due to the errors in the emission inventory techniques as well as the point and area source data to which these techniques are applied. SIEFA can be utilized as a managerial tool to point out where the largest sources of error exist in one's inventory and where inventory improvement is most needed.

CONTACT
Same as NEDS

COMPUTER
Same as NEDS

TURNAROUND TIME
Approximately 24 hours

COST
Average estimated cost of retrieval

OUTPUT
See NEDS output

HAZARDOUS AND TRACE SUBSTANCE EMISSION SYSTEM

SYNONYMOUS NAMES
1. HATREMS

DESCRIPTION
HATREMS, being developed as a subsystem to NEDS, is an additional source and emissions information subsystem which can code and store for any NED source, non-criteria pollutants. Data submission, storage, and output capability will closely parallel that currently employed in and available from NEDS for the five criteria pollutants.

CONTACT
Same as NEDS

COMPUTER
Same as NEDS

TURNAROUND TIME
Approximately 24 hours

COST
Average estimated cost of retrieval

OUTPUT
Emissions summary report similar to NEDS

CURRENCY OF DATA
Same as NEDS

COMPUTER ASSISTED AREA SOURCE EMISSIONS GRIDDING SYSTEM

SYNONYMOUS NAMES
1. CAASE

DESCRIPTION
CAASE is a subsystem of EPA AEROS(Aerometric and Emissions Reporting System) and is a series of programs developed to apportion the NEDS(National Emissions Data System) area (county) source emission estimates to smaller areas, called grids, within each county. These programs utilize as input the NEDS area source files as well as certain census data from the Bureau of Census, (population, number of housing units, etc,), output maps of entire EPA AQCR's(Air Quality Control Regions) which have been gridded according to population density(the more densely populated areas being represented by the smallest grids), and information indicating the level of each pollutant being emitted by the area source activity within each grid. The output from CAASE is utilized, in turn, as input for EPA dispersion modeling programs, which offer better resolution of area source emissions data than NEDS can provide.

CONTACT
Same as NEDS

COMPUTER
Same as NEDS

TURNAROUND TIME
Approximately 24 hours

COST
Average estimated cost of retrieval

OUTPUT
See CAASE description

STORAGE AND RETRIEVAL SYSTEM FOR WATER QUALITY DATA

SYNONYMOUS NAMES

1. STORET

DESCRIPTION

STORET is EPA's computerized information system which provides information on water quality in the United States for analyzing the cause and effect relationships of water pollution. Data on water quality is drawn from over two hundred remote locations operated by many sources including states, USGS and other federal agencies.

The system consists of two basic files: the water quality file(WQF) and the general point source file. (GPSF)

1. WQF - These programs are related to the storage, retrieval and analysis of water quality data of two basic types. Station location data which are related to the location at which water quality samples are collected and water quality data which are related to the date, time, type sample and reported result of water quality analysis. Stations at which samples are collected are located by two methods: (1) hydrologic index, which locates a station on a defined river system. This method allows sorting and retrieval of data records in relation to direction and level of stream flow. (2) geographical coordinates (latitude-longitude) allows storage and retrieval of data collected from large open bodies of water and locations which cannot be readily associated with points on a stream.

2. GPSF - These programs store and retrieve data on over 25,000 municipal waste treatment facilities. Information pertaining to the following categories is available:

- Municipal Waste Inventory
- Industrial Waste Inventory
- Permit Files
- City Master Files
- Pollution-caused Fish Kills
- Agricultural Permits
- Mine Drainage Permits
- Deep Well Injection Surveys
- Municipal Drinking Water Supply
- Construction Needs Surveys
- Ocean Dumping Permits
- Federal Government Discharges
- Grant Information

STORET is a comprehensive data handling system; however, much work remains to be done to make it a total management information system. To that end, future development will be in the area of analysis and graphical display. Additionally, STORET will contain the results of an analytical quality control program currently underway. This combination of data handling, management information, and quality control will provide EPA regional and state users with the most complete on-line environmental data base in the USA.

CONTACT
Bill Tabor, EPA Region VIII

COMPUTER
IBM 370-168, located in Washington, D.C.

TURNAROUND TIME
Approximately 24 hours

COST
Average cost for retrieval is approximately

OUTPUTS
To retrieve information from the STORET data base, the user may invoke a wide range of general purpose procedures for plotting, indexing and computation.

RETRIEVAL--provides for raw data retrieval

INVENTORY--retrieval of water quality inventory including parameters, number of observations, mean, variance, standard deviation, coefficient of variance, standard error, maximum/minimum, and beginning and ending sampling dates.

RETRIEVAL-INVENTORY--same as INVENTORY, except it allows the additional capabilities of retrieval by river-mile-index and/or latitude/longitude specifications, as well as by agency code/station number.

MEAN--retrieves raw water quality data and performs basic statistical operations.

STANDARDS--compares water quality data with a set or sets of criteria entered at retrieval which could be the existing water quality standards.

PLOT--retrieves raw water quality data and produces a plot of the specified data which may be a raw concentration (mg/l) or loading (lb/day).

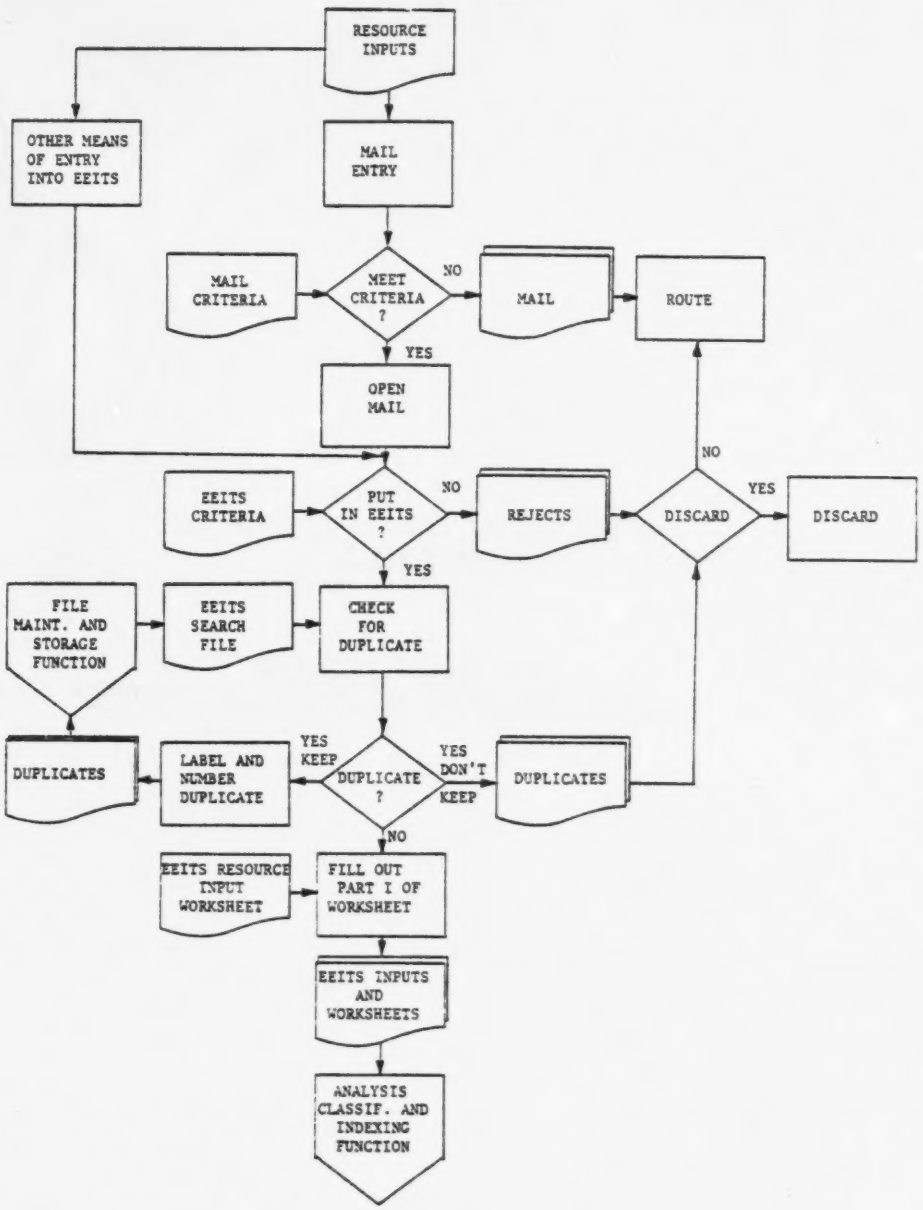
MULTIPLE STATION PLOTS--this allows the display of desired parameter statistics vs. stations along a stream segment.

REGRESSION-- provides additional analysis capability of retrieved water quality data, particularly with regard to comparing one parameter with another (regression analysis, either at the same site or a different site).

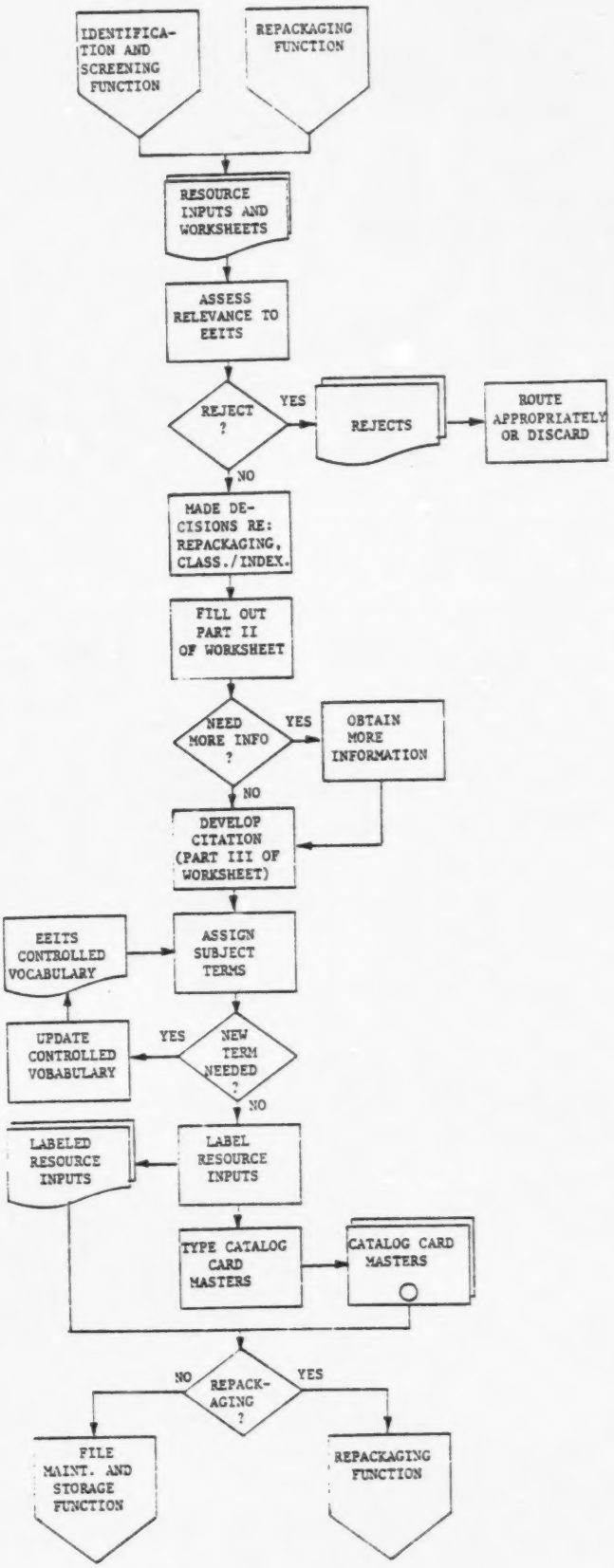
INDEX--provides location data found in station headings for all stations within the designated field of retrieval.

APPENDIX D.

FLOW CHARTS DEPICTING INPUTS, PROCEDURES AND OUTPUTS OF FUNCTIONS

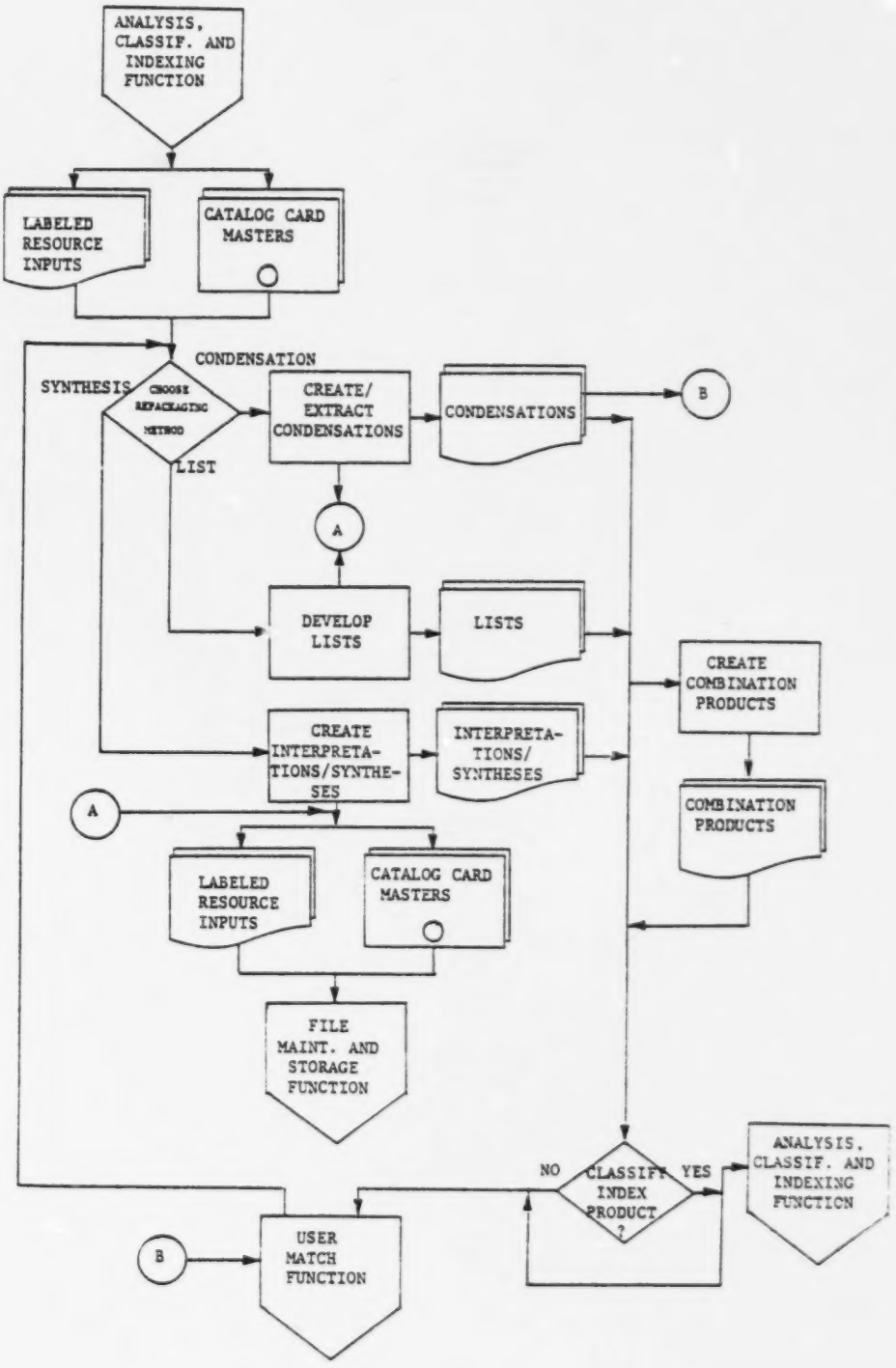


IDENTIFICATION AND SCREENING FUNCTION

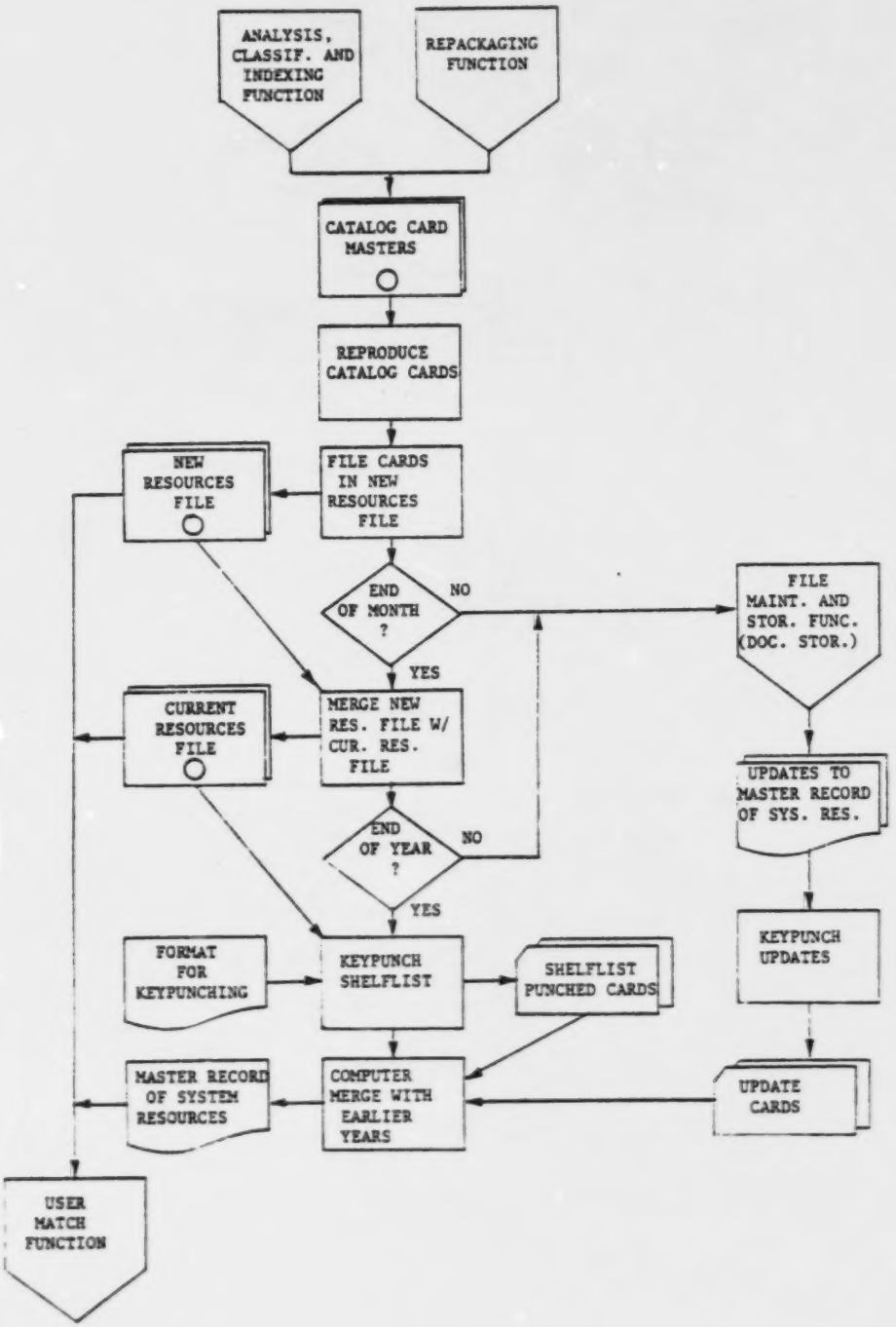


ANALYSIS, CLASSIFICATION AND INDEXING FUNCTION

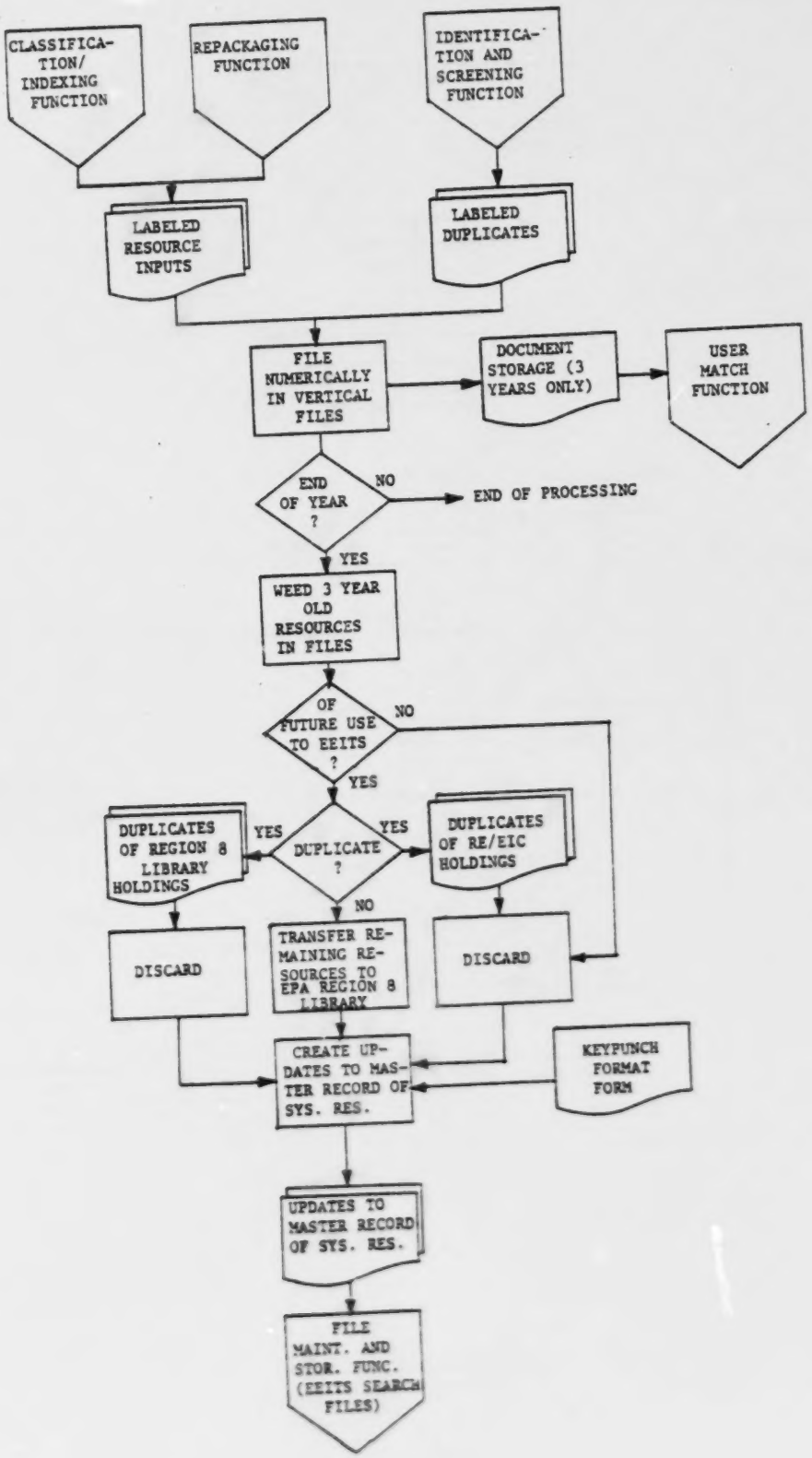
AAI



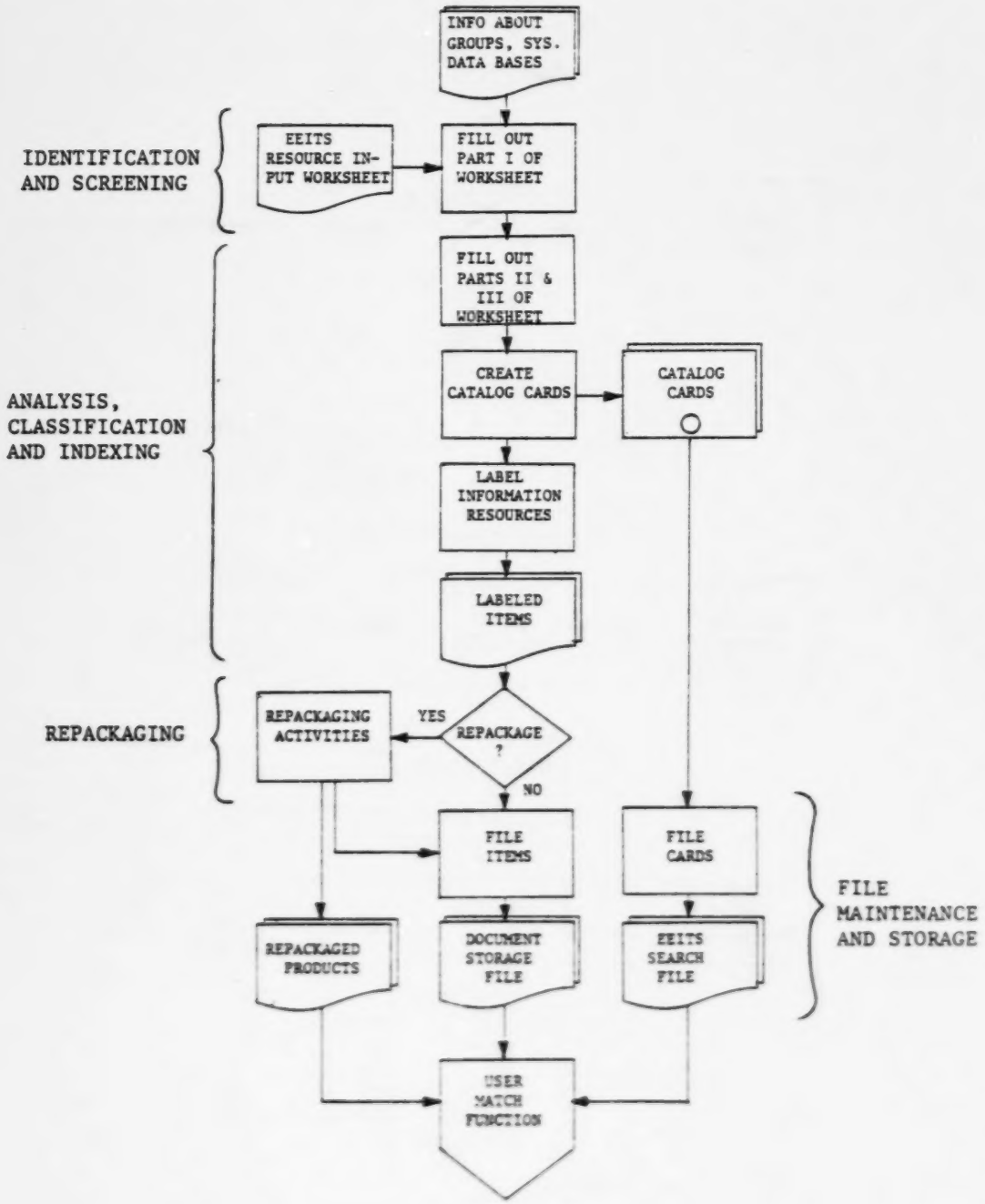
REPACKAGING FUNCTION



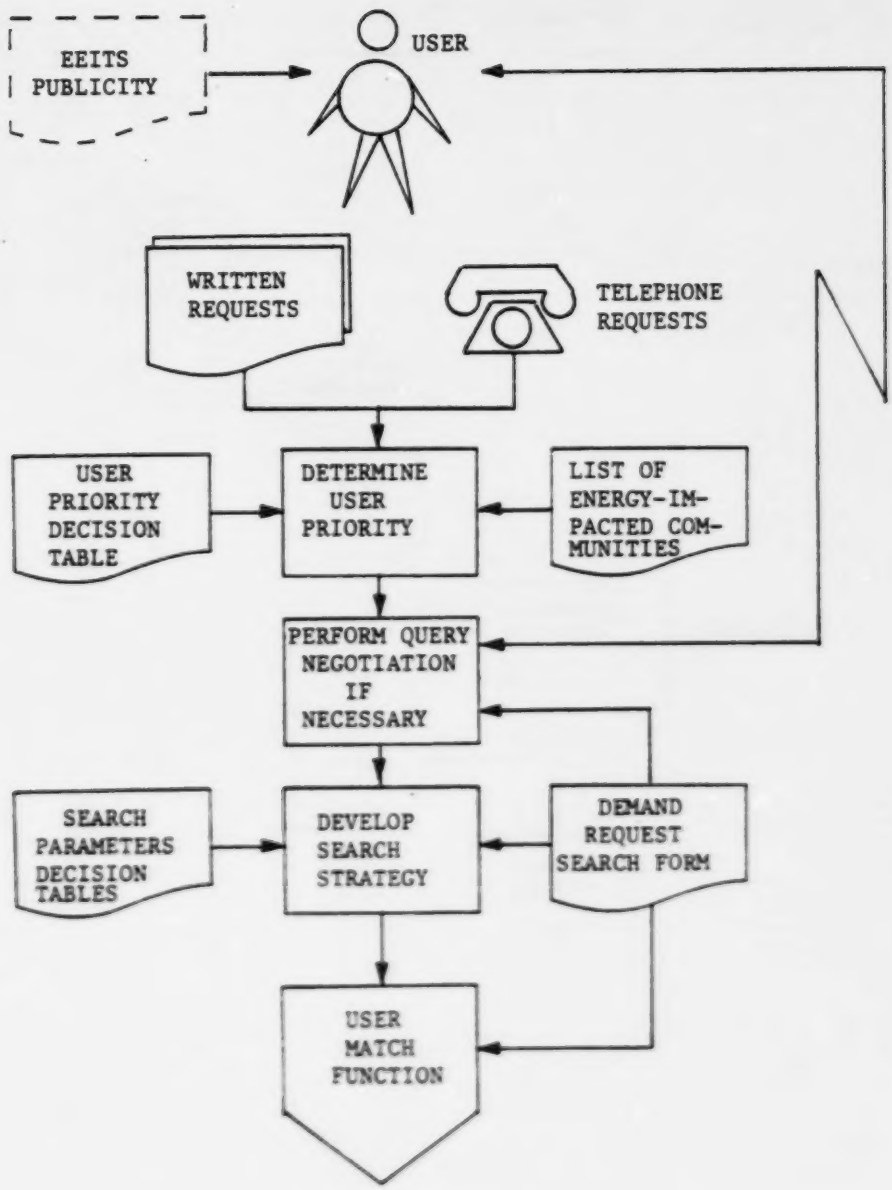
FILE MAINTENANCE AND STORAGE FUNCTION
(EEITS SEARCH FILE)



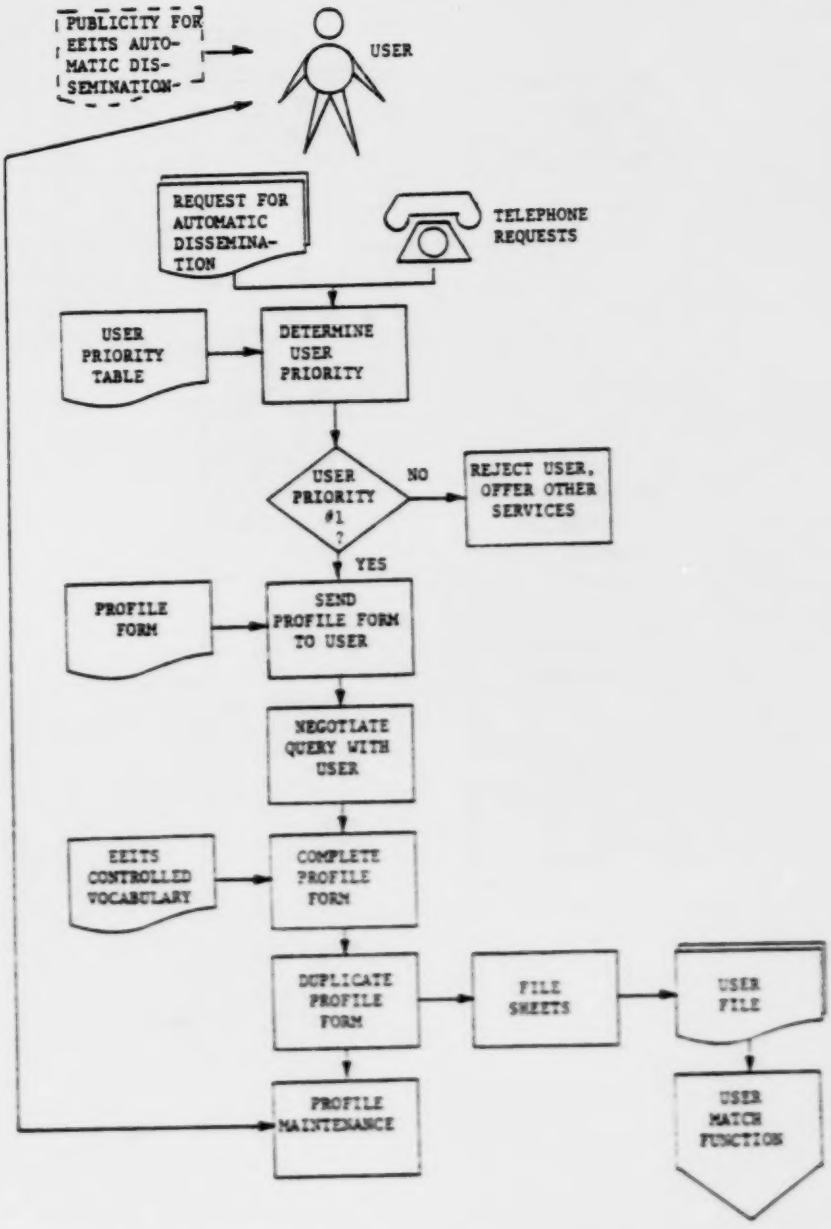
FILE MAINTENANCE AND STORAGE FUNCTION
(DOCUMENT STORAGE)



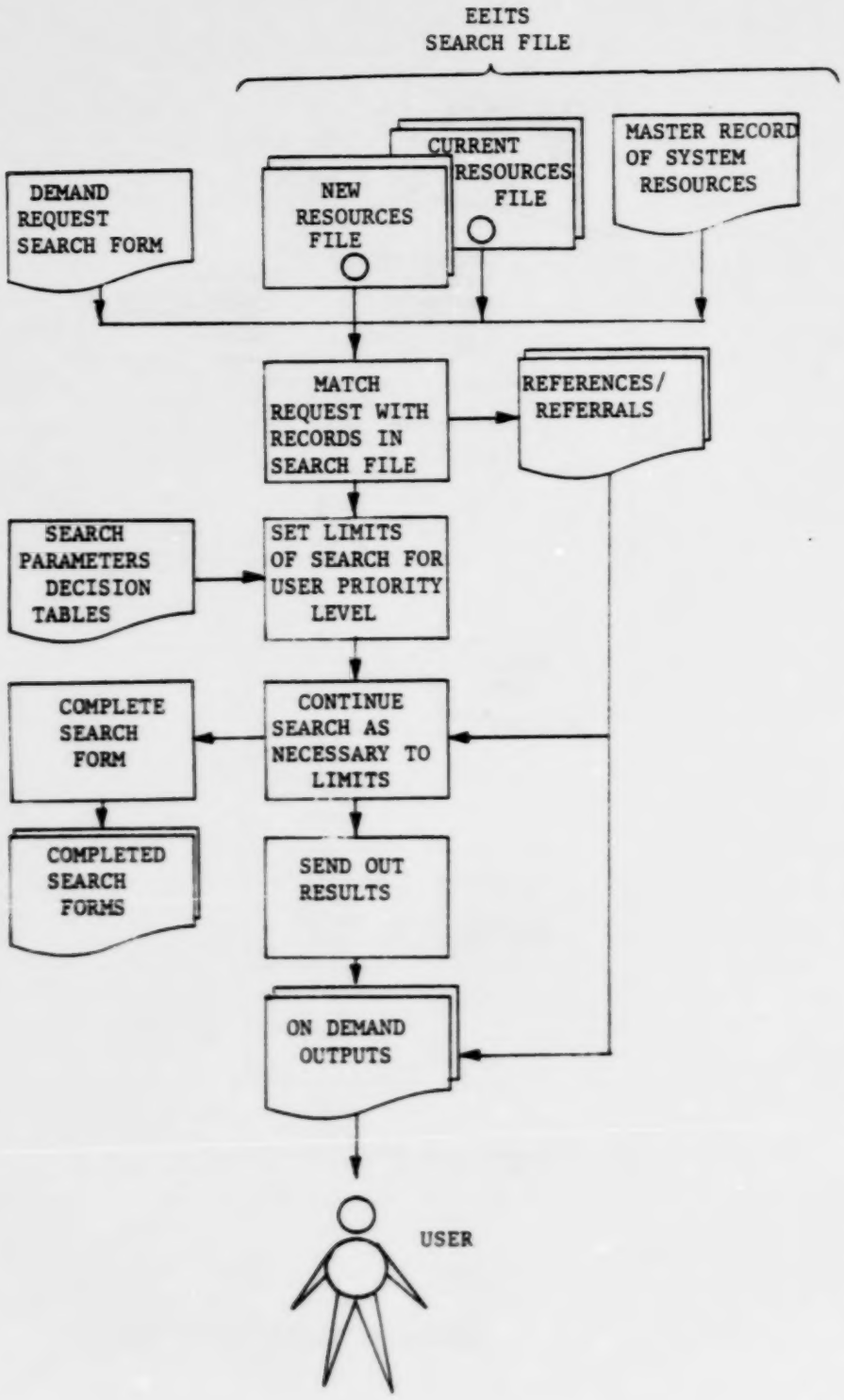
COMMUNICATION WITH OTHER GROUPS, SYSTEMS, DATA BASES
(OVERVIEW)



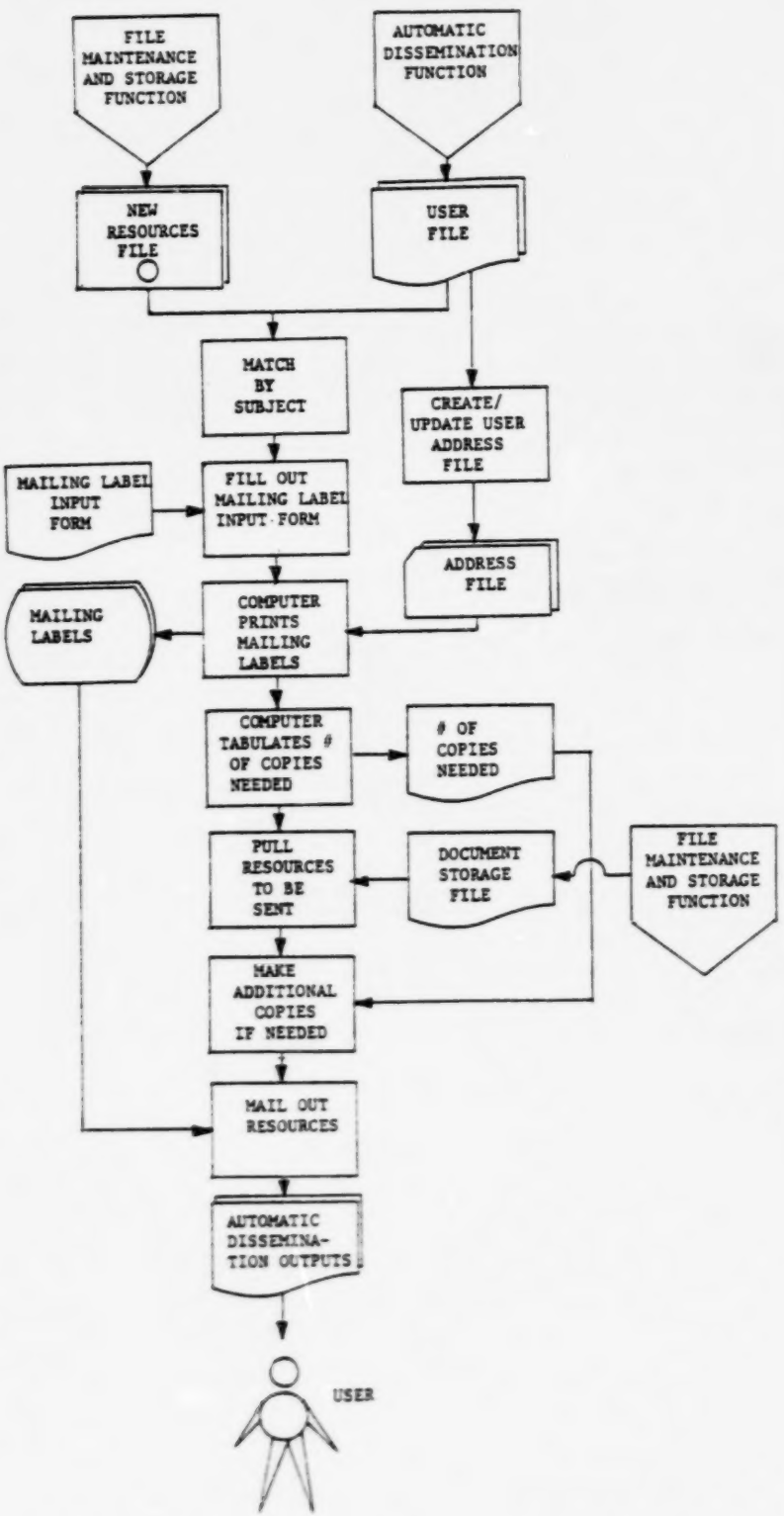
DEMAND REQUEST FUNCTION



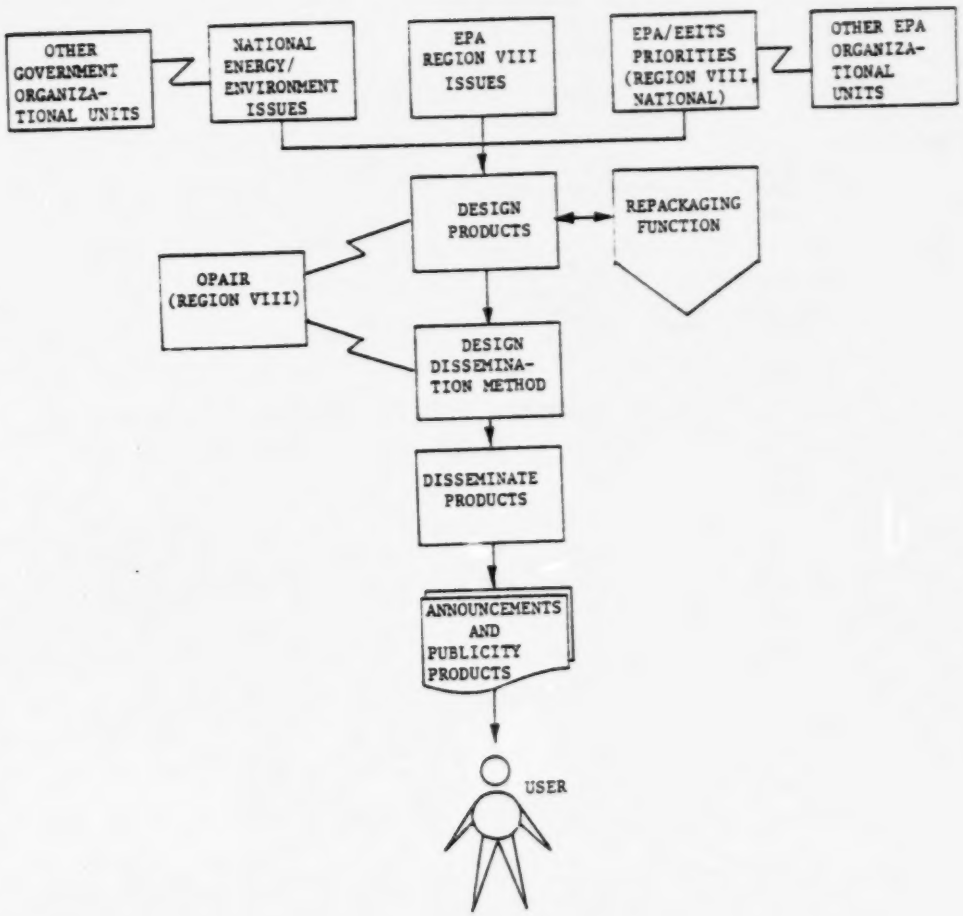
AUTOMATIC DISSEMINATION FUNCTION



USER MATCH DEMAND REQUESTS



USER MATCH: AUTOMATIC DISSEMINATION



USER MATCH FUNCTION -
EPA-INITIATED GENERAL ANNOUNCEMENTS AND PUBLICITY

APPENDIX E.

EEITS RESOURCE INPUT WORKSHEET

EEITS RESOURCE INPUT WORKSHEET

PART I. Identification and Screening Date_____ Name_____

1. Type of resource input: Publication_____ Group, system, data base_____
Audiovisual_____ Project, research_____
Person_____ Event_____
Other_____

2. Title/name:_____

_____

3. General subject area(s):

(a) Energy topics (fuels, technology, conservation, etc.)_____

(b) Environmental topics (air, water, ecology, sewage/wastes, animal, plant life, etc.)_____

(c) Social/economic issues (population, housing, financial, medical, etc.)_____

(d) Information about any of the 6 Region VIII states:
Colorado_____ N. Dakota_____ Utah_____
Montana_____ S. Dakota_____ Wyoming_____

(e) Other (describe)_____

PART II. Analysis Date_____ Name_____

1. Does resource input belong in EEITS? yes_____ no_____

2. Are any aspects of special significance to EEITS users-- in general, or a specific group?

_____

3. Should resource input be classified/indexed? yes_____no_____ (explain, if no)_____

4. Should resource input be repackaged into an abstract or summary?
Abstract/summary may be extracted, pp.:_____
Abstract/summary should be created_____

5. Should resource input be repackaged into another information product such as a list, synthesis, etc.? _____

_____

6. Need more information? yes_____ no_____

7. Comments:_____

_____

EEITS RESOURCE INPUT WORKSHEET

Part III. Classification/Indexing Date:_____ Name:_____

1. Information about physical resources (publications and A/V)

EEITS No.: [ ] (1–6)

Title: [01] (7–8) _____ (9–45)

(con't) _____ (46–80)

(con't) [02] (7–8) _____ (9–45)

Author: _____ (46–80)

Source: (1) [03] (7–8) _____ (9–45)

(con't) _____ (46–80)

(2) [04] (7–8) _____ (9–45)

(con't) _____ (46–80)

Date: (mo/yr) [05] (7–8) ____/____ (9–13) Length: _____ (31–40)

Report No.: _____ (42–80)

[06] (7–8) Available: _____ (9–45)

(con't) _____ (46–80)

[07] (7–8) Abstract: _____ (9–45)

Summary: _____ (46–80)

Subjects: (1) [0 8] (7 8) 9 _____ 45

(2) 46 _____ 80

(3) [0 9] (7 8) 9 _____ 45

(4) 46 _____ 80

(5) [1 0] (7 8) 9 _____ 45

(6) 46 _____ 80

(Resource type: write in one below)

Abstract(s)	Legislation	Slides
Audio tape	Management report	Statistics
Bibliography	Microfiche	Summary
Directory	Newsletter	Technical data
EIS & reviews	Pamphlet/brochure	Technical report
Film	Phono disc	Textbook
Guidelines/standards	Regulation	Other (specify)
Handbook		

[1 1] (7 8) 9 _____ 45

Tech. Level: 46 _____ 80

Comments: [1 2] (7 8) 9 _____ 45

(con't) 46 _____ 80

(con't) [1 3] (7 8) 9 _____ 45

(con't) 46 _____ 80

In EEITS: [1 4] (7 8) 9 ___/___/___ 25 Last Update: ___/___/___ 27 42

Location: [1 5] (7 8) 9 _____ 45

46 _____ 80

EEITS RESOURCE INPUT WORKSHEET

Part III. Classification/Indexing Date:_____ Name:_____

2. Information about persons, groups, systems, data bases

EEITS No.: |_____| (1–6)

Name: (Include title) |01| (7–8) _____ (9–45)

(con't) _____ (46–80)

(con't) |02| (7–8) _____ (9–45)

(con't) _____ (46–80)

Affiliation: |03| (7–8) _____ (9–45)

(con't) _____ (46–80)

(con't) |04| (7–8) _____ (9–45)

(con't) _____ (46–80)

Contact: |06| (7–8) _____ (9–45)

(con't) _____ (46–80)

(con't) |07| (7–8) _____ (9–45)

(con't) _____ (46–80)

Subjects: (1) |08| (7–8) _____ (9–45)

(2) _____ (46–80)

(3) |09| (7–8) _____ (9–45)

(4) _____ (46–80)

(5) [10] 7 8 9 _____ 45

(6) 46 _____ 80

(Resource type: write in one below)

Person
Organization
Information center/system
Data base
Other (specify)

[11] 7 8 9 _____ 45

Tech. Level: 46 _____ 80

Comments: [12] 7 8 9 _____ 45

(con't) 46 _____ 80

(con't) [13] 7 8 9 _____ 45

(con't) 46 _____ 80

In EEITS: [14] 7 8 9 / / 25 Last Update: / / 27 42

Location: [15] 7 8 9 _____ 45

(con't) 46 _____ 80

EEITS RESOURCE INPUT WORKSHEET

Part III. Classification/Indexing Date:_____ Name:_____

3. Information about projects

EEITS No.: [ ] (1–6)

Name: [01] (7–8) (9–45)
(con't) (46–80)

Location: [02] (7–8) (9–45)
(con't) (46–80)

Sponsor: [03] (7–8) (9–45)
(con't) (46–80)

Govn. Sponsor: [04] (7–8) (9–45)
(con't) (46–80)

Dates of Project: [05] (7–8) (9–45)

Contact: [06] (7–8) (9–45)
(con't) (46–80)
(con't) [07] (7–8) (9–45)
(con't) (46–80)

Subjects: (1) [08] (7 8) _____ (9 45)

(2) _____ (46 80)

(3) [09] (7 8) _____ (9 45)

(4) _____ (46 80)

(5) [10] (7 8) _____ (9 45)

(6) _____ (46 80)

[11] (7 8) PROJECT _____ (9 15)

Comments: [12] (7 8) _____ (9 45)

(con't) _____ (46 80)

(con't) [13] (7 8) _____ (9 45)

(con't) _____ (46 80)

In EEITS: [14] (7 8) ___/___/___ (9 25) Last Update: ___/___/___ (27 42)

Location: [15] (7 8) _____ (9 45)

_____ (46 80)

EEITS RESOURCE INPUT WORKSHEET

Part III. Classification/Indexing Date:_____ Name:_____

4. Information about events (workshops, seminars, etc.)

Date of Event: (mo/dy/yr) [ ] (1–6)

Name: [01] (7–8) _____ (9–45)
(con't) _____ (46–80)

Location: [02] (7–8) _____ (9–45)
(con't) _____ (46–80)

Sponsor: [03] (7–8) _____ (9–45)
(con't) _____ (46–80)
(con't) [04] (7–8) _____ (9–45)
(con't) _____ (46–80)

Dates of Event: [05] (7–8) _____ (9–45)

Contact: [06] (7–8) _____ (9–45)
(con't) _____ (46–80)
(con't) [07] (7–8) _____ (9–45)
(con't) _____ (46–80)

Subjects: (1) [0 8] 7 8 9 _____ 45

(2) 46 _____ 80

(3) [0 9] 7 8 9 _____ 45

(4) 46 _____ 80

(5) [1 0] 7 8 9 _____ 45

(6) 46 _____ 80

(Resource type: write in one below)

Workshop Conference
Seminar Other (specify)

[1 1] 7 8 9 _____ 45

Tech. Level: 46 _____ 80

Comments: [1 2] 7 8 9 _____ 45

(con't) 46 _____ 80

(con't) [1 3] 7 8 9 _____ 45

(con't) 46 _____ 80

In EEITS: [1 4] 7 8 9 ___/___/___ 25 Last Update: ___/___/___ 27 42

Location: [1 5] 7 8 9 _____ 45

(con't) 46 _____ 80

APPENDIX F.

RECOMMENDED SYSTEMS AND GROUPS WITH WHICH THE EEITS SHOULD INTERFACE

1. Libraries

Name: EPA Region VIII Library
1860 Lincoln Street
Denver, CO 80295
(303) 837-2560

Sponsor: EPA

Contact point: See address and phone number above

Type of System: Library

Description: The collection supports local EPA programs dealing with noise, energy, pesticides, radiation, and solid waste management. Additional holdings are in air and water pollution. More than 90,000 documents are available on microfiche.

2. Libraries/Information Centers

Name: Regional Energy/Environment Information Center
Denver Public Library
1357 Broadway
Denver, CO 80203
(303) 837-5994

Sponsor: EPA, ERDA (now DOE); cooperative assistance from DOI, Forest Service, FEA, DOC, DHEW.

Contact point: See address and phone number above

Type of System: Library/information center

Description: Wide range of information services available to the public on energy/environment topics, including fact reference, computer searches (via ERDA/RECON), identification of experts, assistance in locating publications. Serves as Regional Depository.

Name: EPA Environmental Research Center Library
26 West Street, Clair Street
Cincinnati, OH 45268
(513) 684-7701

Sponsor: EPA

Contact point: See address and phone number above. EPA Form 2170-1, rev. 9-76 is used to request a computer literature search.

Type of system: Library/information center

Description: The ERC- Cincinnati Library is the focal point of the EPA library system, and provides technical information back-up to all of EPA research efforts. More than 70 data bases are available in a wide range of subject areas for computerized literature searches. This service is available only to EPA personnel. Searches are provided on a request basis and in current awareness mode. The library also has extensive holdings (books, periodicals, technical reports) in all EPA interest areas, and provides document delivery and microfiche duplication.

Name: ERDA/Technical Information Center
Oak Ridge, TN

Sponsor: ERDA (now DOE)

Contact point: See address above

Type of system: Library/information center

Description: The TIC houses a depository of the world's literature on energy and creates a computerized data base of bibliographic citations, subject indexing, and abstracts describing this literature, from which a number of information products are produced, in from high to low technology levels.

Name: Utah Publications Retrieval System
Utah State Library Commission
2150 S. 300 West,
Salt Lake City, UT 84115
(801) 533-5875

Sponsor: State of Utah

Contact point: Available through any library which is a member of the Utah state depository program. Materials describing the UPRS may be obtained by contacting Robert D. Woolley, Education and Curriculum Librarian, Merril Library and Learning Resources Program, Utah State University, Logan, UT 84322

Type of system: Library/information system

Description: A master index and retrieval system for the official publications of all agencies of state and local government in Utah. Fiche or blowback copies of all documents in the index are provided on request by all libraries in the Utah state depository program.

Name: San Francisco Energy Information Center
100 California Street
San Francisco, CA 94111
(415) 556-1841

Sponsor: EPA, ERDA, FEA (Now DOE)

Contact point: See address and phone number above

Type of system: Library/information center

Description: The purpose of the center is to provide the public with information services and referrals to various Federal experts in their field of interest. Collection is 5,000 + energy and energy-related documents on microfilm, with some printed copies. ERDA RECON Searches are available for a fee.

3. Bibliographic Retrieval Systems

Name: North Dakota Regional Environment Assessment Program (REAP)
Provident Life Building, Room 521
316 North Fifth Street
Bismarck, ND 58505
(701) 224-2916

Sponsor: The State of North Dakota

Contact point: See address and phone number above. Mail, phone and in-person contact.

Type of system: Information system

Description: System has four machine-searchable files: ND technical experts, ND studies and projects, data collections, and published materials (bibliography file). All information is relevant to ND, and areas covered include agricultural sciences, environmental topics, socioeconomic topics, and natural sciences.

4. Information Referral Services

Name: United States International Environmental Referral Center (USIERC)
PM-213
United States Environmental Protection Agency
401 M. Street, S.W. (Room 2902 WSM)
Washington, DC 20460
(202) 755-1836,37,38

Sponsor: United Nations, EPA

Contact point: See address and phone number above

Type of system: Information referral system

Description: USIERC is the U.S. focal point of the UN International Referral System (IRS). Information on over 500 "Knowledgeable Sources" in the U.S. is maintained in a machine readable indexed file. Subjects cover energy, environment, and socioeconomic topics. Lists of sources are provided to the public in response to specific requests. If request cannot be answered by U.S. sources a search is made of an international directory of sources.

5. Information Networks

Name: Montana Energy Information Transfer Network
Montana State Library
930 E. Lyndale
Helena, MT 59601
(406) 449-3004

Sponsor: Consortium: Montana State Library, the Montana Energy Office, the Old West Regional Commission, EPA Montana Energy Operations Office, Regional Energy/Environment Information Center in the Denver Public Library

Contact point: See address and phone number above. Any Montana local library may also be used as an access point.

Type of system: Information Network

Description: This network provides energy-related information in the form of publications, (through the Montana interlibrary loan network-MINE, the Pacific Northwest Bibliographic Center Union Catalog and the University of Montana depository collection), on-line library searches (through a terminal in the Montana State Library), and energy research project descriptive data (through the Montana Energy Research Inventory of the Montana Energy Office, and the Energy Research Information System of the Old West Regional Commission). Services are free to the public, who may request through any library in the state interlibrary loan network.

Name: Western Information Network on Energy (WINE)

Sponsor: Membership of individuals representing various regional information groups and activities of Montana, Nebraska, North Dakota, South Dakota, Wyoming, Colorado, Utah, Arizona, New Mexico, and Nevada.

Contact point: Allen Lefohn, Chairman
EPA Montana Energy Operations Office
State Capitol
Helena, MT 59601
(406) 449-3940

Type of system: Information Network

Description: WINE is intended to provide to its members a cooperative channel for identification and coordination of energy information needs and resources, facilitate transfer of energy information and provide mutual guidance and support concerning energy information handling systems and methods. Specific task forces handle projects such as compiling a directory of regional energy information resources.

6. Community Assistance/Technology Transfer

Name: Denver Urban Observatory
Box A 097 University Center
4200 E. 9th Avenue
Denver, CO 80262
(303) 394-8701

Sponsor: Consortium: University of Denver, University of Colorado, Metropolitan State College, Community College of Denver, City and County of Denver

Contact point: The Director. Address and phone number as above.

Type of system: Community assistance/technology transfer

Description: Performs and coordinates research to provide solutions to urban problems. Research teams come from local universities, college and city administrators.

Name: National Science Foundation, Intergovernmental Programs Division
Washington, DC 20550

Sponsor: NSF

Contact point: See address above.

Type of system: Community assistance/technology transfer

Description: Through a series of funded "innovation groups", (e.g. Denver Urban Observatory) assists state, regional and local governments in (a) defining problems

AAI

(b) locating/matching with experts and technologies helpful toward solving the problem (c) determining whether the problem has been solved previously, and (d) advising the client government body regarding the feasibility and practicality of transferring results of other projects to this application.

Note: This program funds many local groups including the Center for Local Government Technology at Oklahoma State University, and the Denver Urban Observatory.

Name: Public Administration Field Service Program for Small Communities

Sponsor: U.S. Dept. of Housing and Urban Development, Office of Policy Development and Research

Contact point: Dr. A.J. Mackelprang
University of Denver
2020 South Race Street
Denver, CO 80208
(303) 753-3442

Type of system: Community assistance/technology transfer

Description: Graduate students from a consortium of universities (University of Denver, Utah State University, University of Colorado, University of Wyoming) are placed as interns in participating eligible communities to assist local officials. Guidance is provided by faculty members. Eligible communities are those in Colorado, Utah and Wyoming with a population of 25,000 or less and are undergoing rapid growth because of energy development. Areas of assistance include management, planning, finance and budgeting.

APPENDIX G.

EEITS CONTROLLED VOCABULARY AND INDEX

TERMS DESIGNATING ENERGY TOPICS

- Energy
  - Electric power
  - Geothermal power
  - Nuclear energy
  - Solar energy
  - Waterwave energy
  - Wind energy
  - Energy conservation
  - *Energy conversion
- Fuels
  - Coal
    - Coal gasification
    - Coal liquefaction
  - Natural gas
  - Petroleum
    - Fuel oil
  - Shale oil
  - *Uranium
  - Wood
- Mineral Industry
  - *Alunite
  - *Butonite
  - Copper industry
  - *Gilsonite
  - Iron industry
  - Lead industry
  - Phosphate industry
  - *Potash
  - Zinc industry
- Mining
  - *Hard rock mining
  - Strip mining
- Power plants
- Site selection

---

* Terms not from the NTIS Environmental Microthesaurus

TERMS DESIGNATING ENERGY IMPACT TOPICS

Environmental Impacts
- Air pollution
- Air quality
- Drinking water
- Dust
- Environmental monitoring
- Erosion
- Ground water
- Herbicides
- Land use
- Noise pollution
- Noise reduction
- Pesticides
- Pollution
- Pollution control
- Radiation hazards
- Runoff
- Sewage
- Sewage treatment
- Sludge
- Soil chemistry
- Soil conservation
- Solid wastes
- Thermal pollution
- Water pollution
- Water quality
- Water resources
- Water rights
- Water supply
- Water treatment
- *208 Activities and planning

Animal Ecology
- Animals
  - *Domestic animals
  - Endangered species
  - Predators
  - Wildlife
- Fisheries

Plant Ecology
- *Agriculture

Socioeconomic Factors
- Economic factors
- Education
- Housing
- Industry

Law enforcement
*Population
Public health
Recreation
Roads
Schools
Social factors
Taxes
Transportation

TERMS DESIGNATING OTHER TOPICS

*Energy/environment information

*Energy/environment policy and planning

*Energy/environment research

Environmental impact statement

Financing

Forecasting

Legislation

Public opinion

Regulations

TERMS DESIGNATING GEOGRAPHIC INTEREST OR RELEVANCE**

Colorado
Montana
North Dakota
Northern Great Plains
Region VIII
Utah
Western U.S.
Wyoming

**Additional terms should be added as needed to describe other geographic (and "proper name") concepts, e.g.,

- Names of states
- Names of the ten Federal regions
- Names of cities and counties in Region VIII
- Names of Indian tribes/reservations
- Names of rivers, lakes, dams, etc.

INDEX TO EEITS CONTROLLED VOCABULARY

Air pollution
BT*: Environmental impacts

Air quality
BT: Environmental impacts

Agriculture
BT: Plant ecology

Alunite
BT: Mineral industry

Animal ecology
BT: Terms designating energy impact topics

Animals
BT: Animal ecology

Butonite
BT: Mineral industry

Coal
BT: Fuels

Coal gasification
BT: Coal

Coal liquefaction
BT: Coal

Colorado
BT: Terms designating geographic interest

Copper industry
BT: Mineral industry

Domestic animals
BT: Animals

Drinking water
BT: Environmental impacts

Dust
BT: Environmental impacts

* BT stands for Broader Term, i.e., the more general category under which the term in question appears in the controlled vocabulary.

Economic factors
BT: Socioeconomic factors

Education
BT: Socioeconomic factors

Electric power
BT: Energy

Endangered species
BT: Animals

Energy
BT: Terms designating energy topics

Energy conservation
BT: Energy

Energy conversion
BT: Energy

Energy/environment information
BT: Terms designating other topics

Energy/environment policy and planning
BT: Terms designating other topics

Energy/environment research
BT: Terms designating other topics

Environmental impacts
BT: Terms designating energy impact topics

Environmental impact statement
BT: Terms designating other topics

Environmental monitoring
BT: Environmental impacts

Erosion
BT: Environmental impacts

Financing
BT: Terms designating other topics

Fisheries
BT: Animal ecology

Forecasting
BT: Terms designating other topics

Fuel Oil
BT: Petroleum

Fuels
BT: Terms designating energy topics

Geothermal power
BT: Energy

Gilsonite
BT: Mineral industry

Ground water
BT: Environmental impacts

Hard rock mining
BT: Mining

Herbicides
BT: Environmental impacts

Housing
BT: Socioeconomic factors

Industry
BT: Socioeconomic factors

Iron industry
BT: Mineral industry

Land use
BT: Environmental impacts

Law enforcement
BT: Socioeconomic factors

Lead industry
BT: Mineral industry

Legislation
BT: Terms designating other topics

Mineral industry
BT: Terms designating energy topics

Mining
BT: Terms designating energy topics

Montana
BT: Terms designating geographic interest

Natural gas
BT: Fuels

Noise pollution
BT: Environmental impacts

Noise reduction
BT: Environmental impacts

North Dakota
BT: Terms designating geographic interest

Northern Great Plains
BT: Terms designating geographic interest

Nuclear energy
BT: Energy

Pesticides
BT: Environmental impacts

Petroleum
BT: Fuels

Phosphate industry
BT: Mineral industry

Plant ecology
BT: Terms designating energy impact topics

Pollution
BT: Environmental impacts

Pollution control
BT: Environmental impacts

Population
BT: Socioeconomic factors

Potash
BT: Mineral industry

Power plants
BT: Terms designating energy topics

Predators
BT: Animals

Public health
BT: Socioeconomic factors

Public opinion
BT: Terms designating other topics

Radiation hazards
BT: Environmental impacts

Recreation
BT: Socioeconomic factors

Region VIII
BT: Terms designating

Regulations
BT: Terms designating other topics

Roads
BT: Socioeconomic factors

Runoff
BT: Environmental impacts

Schools
BT: Socioeconomic factors

Sewage
BT: Environmental impacts

Sewage treatment
BT: Environmental impacts

Shale oil
BT: Fuels

Site selection
BT: Terms designating energy topics

Sludge
BT: Environmental impacts

Social factors
BT: Socioeconomic factors

Socioeconomic factors
BT: terms designating energy impact topics

Soil chemistry
BT: Environmental impacts

Soil conservation
BT: Environmental impacts

Solar energy
BT: Energy

Solid wastes
BT: Environmental impacts

Strip mining
BT: Mining

Taxes
BT: Socioeconomic factors

Thermal pollution
BT: Environmental impacts

Transportation
BT: Socioeconomic factors

Uranium
BT: Fuels

Utah
BT: Terms designating geographic interest

Water pollution
BT: Environmental impacts

Water quality
BT: Environmental impacts

Water resources
BT: Environmental impacts

Water rights
BT: Environmental impacts

Water supply
BT: Environmental impacts

Water treatment
BT: Environmental impacts

Waterwave energy
BT: Energy

Western U.S.
BT: Terms designating geographic interest

Wildlife
BT: Animals

Wind energy
BT: Energy

Wood
BT: Fuels

Wyoming
BT: Terms designating geographic interest

Zinc industry
BT: Mineral industry

208 Activities and planning
BT: Environmental impacts

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